Nokia Service Router Linux
7215 Interconnect System
7220 Interconnect Router
7250 Interconnect Router

Release 26.10

Data Model Reference

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1 About this guide

This document describes the configuration and state data models available for the Nokia Service Router Linux (SR Linux).

Note:
This guide generically covers the current release and may contain some content that will be released in later maintenance loads. See the *SR Linux Software Release Notes*, for information about features supported in each load.

Configuration and command outputs shown in this guide are examples only; actual displays may differ depending on supported functionality and user configuration.

For more information about accessing and using the interfaces that support these data models, see the *SR Linux System Management Guide*.

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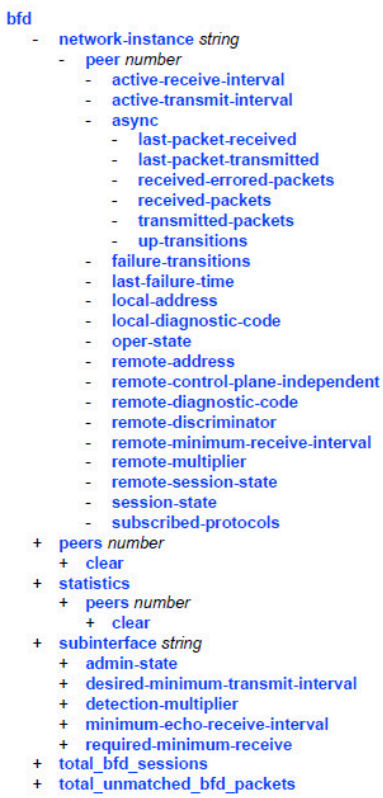
2 Overview

This overview describes the structure of the configuration and state data models available for the Nokia Service Router Linux (SR Linux). It includes an introduction to the tree hierarchy and details how to interpret field descriptions.

2.1 Tree hierarchy

The tree hierarchy consists of branches that show the fields and parameters that are available. Figure 1: Tree hierarchy example shows a tree hierarchy example.

Figure 1: Tree hierarchy example



Each chapter of this guide describes a branch in the tree with field names linked to their corresponding descriptions. These descriptions indicate the required syntax for each field. See Field descriptions for more information.

Italic names after a field indicate the parameter type. Parameter types include (but are not limited to):

- Boolean (true and false values)
- keyword (enumerated values)

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- string
- number
- IPv4 prefix
- IPv6 prefix
- IPv4 address
- IPv6 address
- MAC address

For more information about the input values, click the field or parameter name in the tree. The link will take you to the description where these values are defined.

A parameter type may also be a combination of different base types. These parameters are displayed in the tree with the individual parameter types enclosed in round brackets and separated by a pipe. For example: *(keyword* | *number)*

2.2 Transaction and report types

The following transaction, report types, and actions are used with the SR Linux:

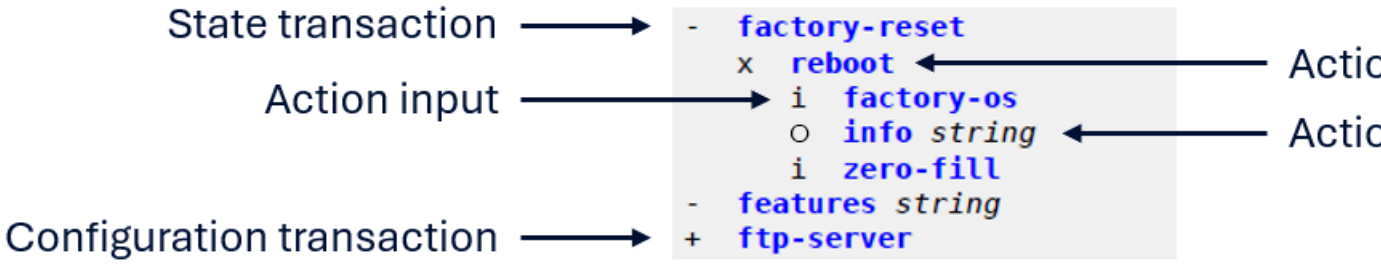
- configuration transactions
- state transactions
- show reports
- action commands
- action inputs
- action outputs

In the tree hierarchy, elements are denoted with the following signs:

- Configuration transactions are denoted with a plus sign (+)
- State transactions are denoted with a minus sign (-)
- Action commands are denoted with the letter (x)
- Action inputs are denoted with the letter (i)
- Action outputs are denoted with the letter (o)

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Figure 2: Element types in the tree hierarchy



Configuration and state transactions

Configuration transactions are used to create, modify, or delete configuration data (nodes under the configuration branch).

State transactions are used to view data. They can include both configuration and operational (state) information. State data is not modified through configuration transactions.

Show reports

Show reports are Python plug-ins used to create custom output. A set of pre-defined show reports are provided and described in the *SR Linux System Management Guide*. These pre-defined reports can be used as examples for how to create additional custom reports.

Actions

An action may have a Configurable value of True or False, depending on whether it is defined under a configuration branch or the state branch.

Actions are not configuration data. They cannot be added, changed, or removed through configuration transactions. An action is invoked as an operation on a specific action instance.

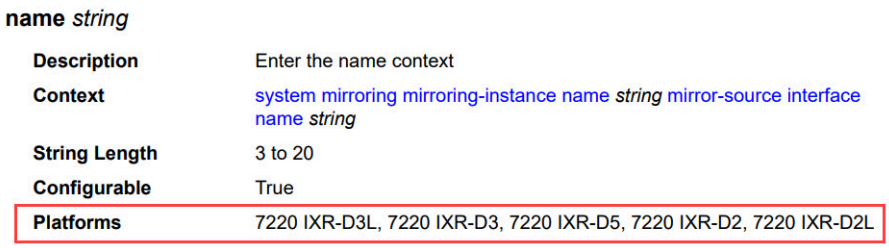
Action input and action output nodes are parameters and results of that invocation. They are not configuration data and are not committed to the configuration datastore, regardless of the Configurable field value shown in the schema tree context.

2.3 Hardware platform designation

The platforms field is used to define the hardware platforms that are valid for a transaction. If a transaction is only valid on specific platforms, the designation is similar to the following:

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Figure 3: Platforms: applies to desiginated platforms only



If a transaction is valid on all platforms, the designation is the following:

Figure 4: Platforms: applies to all platforms



2.4 Field descriptions

Syntax for each field is displayed in bold, followed by supported parameters and their type. In the example that follows, the **bfd network-instance** element shows that the parameter type is a string:

```
- bfd
    - network-instance string
```

Table 1: Field descriptions describes valid fields for commands. Not all fields are applicable for all commands.

Table 1: Field descriptions

Field	Description
Context	Configuration path to the command
Tree	Defines the command location in the tree hierarchy
Description	Describes the command
Configurable	Indicates whether the element sits under a state branch (False) or a configurable branch (True). See Configurable field for more information.
String Length	For a string, indicates a range (number of characters allowed)

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Field	Description
Range	For a number, indicates the range of allowed values
Default	Default value
Units	Base unit type
Options	Enumerated values allowed
Reference	Reference to an instance in the configuration needed before the configuration is considered valid
Max Element	For lists and leaf-lists, the maximum number of elements
Platforms	Defines the supported hardware platforms
Note	Indicates the kind of element as either an action command, action input, or an action output. See Note field for more information.

Configurable field

The Configurable field indicates whether a node in the model is configurable or whether it represents operational (state) data.

This field is set to either:

- **True**

  The node or at least one ancestor is configurable (no `config false` value applies to the node or any ancestor).

- **False**

  The node and its ancestors contain operational data and are not configurable (`config false` is present on the node or an ancestor).

Action elements may have a Configurable value of true or false depending on where the element sits in the tree hierarchy. Action elements themselves are not configurable.

Note field

This field indicates the kind of element as one of the following:

- Action command – the action operation defined in YANG
- Action input – a parameter supplied when the action is invoked (optional)
- Action output – a result returned when the action completes (optional)

For all other elements, this field is not shown.

For more information about actions, see Actions.

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2.4.1 References

A description of each parameter is also available from the online CLI help function. See the *SR Linux System Management Guide* for information on using the CLI help.

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3 acl

```
acl
+  acl-filter name string type keyword
   +  description string
   -  embedded-entries
      -  entry sequence-id number
         -  action
            -  accept
               -  forward
                  -  network-instance reference
                  -  next-hop
                     -  address (ipv4-address | ipv6-address)
                     -  network-instance reference
            -  collect-stats boolean
            -  drop
            -  log boolean
         -  embedding-index reference
         -  nlri
            -  destination-port string
            -  destination-prefix string
            -  dscp string
            -  flow-label string
            -  fragment string
            -  icmp-code string
            -  icmp-type string
            -  icmpv6-code string
            -  icmpv6-type string
            -  ip-protocol string
            -  ipv6-destination-prefix string
            -  ipv6-source-prefix string
            -  packet-length string
            -  port string
            -  source-port string
            -  source-prefix string
            -  tcp-flags string
            -  upper-layer-protocol string
         -  source keyword
         -  statistics
            -  incomplete boolean
            -  last-clear string
            -  last-match string
            -  matched-packets number
            -  policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
            -  system-cpu-policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
         -  tcam-entries
            -  forwarding-complex complex-identifier string
               -  input-total number
               -  output-total number
               -  single-instance number
```


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```
+  embedding index number
   +  bgp-flowspec
      +  group number
      +  network-instance reference
   -  candidate-entries number
   +  offset number
   -  oper-state keyword
   -  oper-state-reasons keyword
   -  programmed number
   +  range number
   +  subscriber-management
+  entry sequence-id number
   +  action
      +  accept
         +  rate-limit
            +  policer reference
            +  system-cpu-policer reference
      +  copy
      +  drop
      +  log boolean
      +  reject
         +  v4-message-type keyword
         +  v6-message-type keyword
   +  description string
   -  last-clear string
   +  match
      +  ipv4
         +  destination-ip
            +  address string
            +  mask string
            +  prefix string
            +  prefix-list name reference
         +  dscp-set (number | keyword)
         +  first-fragment boolean
         +  fragment boolean
         +  icmp
            +  code number
            +  type (number | keyword)
         +  protocol (number | keyword)
         +  source-ip
            +  address string
            +  mask string
            +  prefix string
            +  prefix-list name reference
      +  ipv6
         +  destination-ip
            +  address string
            +  mask string
            +  prefix string
            +  prefix-list name reference
         +  dscp-set (number | keyword)
         +  icmp6
            +  code number
            +  type (number | keyword)
         +  next-header (number | keyword)
         +  source-ip
            +  address string
            +  mask string
            +  prefix string
            +  prefix-list name reference
      +  l2
         +  destination-mac
            +  address string
            +  mask string
```


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```
            +  ethertype (string | keyword)
            +  source-mac
               +  address string
               +  mask string
            +  vlan
               +  outermost-vlan-id
                  +  none
                  +  operator keyword
                  +  range
                     +  end number
                     +  start number
                  +  value number
         +  transport
            +  destination-port
               +  operator keyword
               +  port-list name reference
               +  range
                  +  end (number | keyword)
                  +  start (number | keyword)
               +  value (number | keyword)
            +  source-port
               +  operator keyword
               +  port-list name reference
               +  range
                  +  end (number | keyword)
                  +  start (number | keyword)
               +  value (number | keyword)
            +  tcp-flags string
      -  statistics
         -  incomplete boolean
         -  last-clear string
         -  last-match string
         -  matched-packets number
         -  policer
            -  conforming-octets number
            -  conforming-packets number
            -  exceeding-octets number
            -  exceeding-packets number
         -  system-cpu-policer
            -  conforming-octets number
            -  conforming-packets number
            -  exceeding-octets number
            -  exceeding-packets number
      -  tcam-entries
         -  forwarding-complex complex-identifier string
            -  input-total number
            -  output-total number
            -  single-instance number
   -  last-clear string
   -  statistics
   +  statistics-per-entry boolean
   +  subinterface-specific keyword
-  datapath-programming
   -  forwarding-complex slot-id number complex-id number
      -  last-completed-timestamp string
      -  programming-complete boolean
+  egress-mac-filtering boolean
+  interface interface-id string
   +  input
      +  acl-filter name reference type reference
         -  entry sequence-id reference
            -  policer
               -  conforming-octets number
               -  conforming-packets number
```


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```
                  -  exceeding-octets number
                  -  exceeding-packets number
               -  statistics
                  -  incomplete boolean
                  -  last-clear string
                  -  last-match string
                  -  matched-packets number
            -  statistics
         -  statistics
            -  last-clear string
            -  policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
   +  interface-ref
      +  interface reference
      +  subinterface reference
   +  output
      +  acl-filter name reference type reference
         -  entry sequence-id reference
            -  policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
            -  statistics
               -  incomplete boolean
               -  last-clear string
               -  last-match string
               -  matched-packets number
            -  statistics
         -  statistics
            -  last-clear string
            -  policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
+  ipv4-tcam-action-profile keyword
+  match-list
   +  ipv4-prefix-list name string
      +  apply-path index number
         +  network-instance
            +  match reference
            +  match-pattern string
            +  source
               +  interface string
               +  protocol
                  +  bgp
                     +  group string
                     +  neighbor string
      +  description string
      +  prefix ipv4-prefix string
   +  ipv6-prefix-list name string
      +  apply-path index number
         +  network-instance
            +  match reference
            +  match-pattern string
            +  source
               +  interface string
               +  protocol
                  +  bgp
                     +  group string
```


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```
                     +  neighbor string
      +  description string
      +  prefix ipv6-prefix string
   +  port-list name string
      +  description string
      +  port id number
         +  range
            +  end (number | keyword)
            +  start (number | keyword)
         +  value (number | keyword)
+  policers
   +  policer name string
      +  entry-specific boolean
      +  maximum-burst-packet number
      +  maximum-burst-size number
      +  peak-rate-kbps number
      +  peak-rate-pps number
      +  scope keyword
      -  statistics
         -  aggregate
            -  conforming-octets number
            -  conforming-packets number
            -  exceeding-octets number
            -  exceeding-packets number
            -  last-clear string
   +  system-cpu-policer name string
      +  entry-specific boolean
      +  maximum-burst-packet number
      +  peak-rate-pps number
      -  statistics
         -  conforming-octets number
         -  conforming-packets number
         -  exceeding-octets number
         -  exceeding-packets number
         -  last-clear string
```


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3.1 acl Descriptions

acl

Description	Enter the acl context Top level container for configuration and operational state related to access control lists (ACLs)
Context	acl
Tree	acl
Configurable	True
Platforms	Supported on all platforms

acl-filter name *string* type *keyword*

Description	List of MAC, IPv4, IPv6 filter policies
Context	acl acl-filter name *string* type *keyword*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	ACL Filter policy name
Context	acl acl-filter name *string* type *keyword*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	Defines the type of ACL filter: ipv4: IPv4 ACL filter ipv6: IPv6 ACL filter mac: MAC ACL filter mixed: mixed layer-2/layer-3 filter used for QoS handling of system generated traffic
Context	acl acl-filter name *string* type *keyword*
Options	• ipv4 • ipv6

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- mac
- mixed

  Mixed layer-2/layer-3 filter that combines protocol, transport-port and ethernet-type match criteria and is applied to system generated traffic via the system control-plane-traffic output context

Configurable True

Platforms Supported on all platforms

description *string*

Description Description string for the filter policy

Context acl acl-filter name *string* type *keyword* description *string*

Tree description

String Length 1 to 4096

Configurable True

Platforms Supported on all platforms

embedded-entries

Description Enter the embedded-entries context

Operational rows programmed from embed sources, separate from the static entry list

Context acl acl-filter name *string* type *keyword* embedded-entries

Tree embedded-entries

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry sequence-id *number*

Description One dynamically programmed ACL row for this filter

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number*

Tree entry

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sequence-id *number*

Description Sequence-id of this embedded entry within the filter

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number*

Range 0 to 65535

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

action

Description Enter the action context

Action programmed in hardware for this embedded entry

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action

Tree action

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accept

Description Enter the accept context

Accept matching packets and forward them towards their normal destination, optionally redirected

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept

Tree accept

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward

Description Enter the forward context

Populated only when BGP requested redirection to a next hop or a routing context; omitted for a plain accept.

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Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept forward
Tree	forward
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Routing context resolved from the virtual-router identifier received from BGP
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept forward network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop

Description	Enter the next-hop context
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept forward next-hop
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	IP address of the next hop received from BGP
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept forward next-hop address *(ipv4-address | ipv6-address)*
Tree	address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance *reference*

Description	Routing context resolved from the virtual-router identifier received from BGP alongside the next hop.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action accept forward next-hop network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-stats *boolean*

Description	Whether statistics are collected for packets matching this entry
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action collect-stats *boolean*
Tree	collect-stats
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop

Description	Enter the drop context Drop matching packets
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action drop
Tree	drop
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

log *boolean*

Description	Whether packets matching this entry are logged
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* action log *boolean*

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Tree	log
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

embedding-index *reference*

Description	Embedding binding that programmed this row References the embedding index whose offset and range cover this sequence-id, identifying which embed source produced this entry and, transitively, its network-instance and group.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* embedding-index *reference*
Tree	embedding-index
Reference	acl acl-filter name *string* type *keyword* embedding index *number*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description	Enter the nlri context BGP FlowSpec NLRI components for this embedded entry Operator-notation strings (for example '[>= 100] and [<200]') that allow an operator or a controller such as Deepfield to correlate a generated FlowSpec rule to this filter row and its statistics. Populated only when source is bgp-flowspec. Components that do not apply to the acl-filter type or are absent from the route are omitted.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri
Tree	nlri
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description	FlowSpec destination-port component

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Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri destination-port *string*
Tree	destination-port
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description	FlowSpec destination-prefix component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri destination-prefix *string*
Tree	destination-prefix
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *string*

Description	FlowSpec DSCP component List of the matched DSCP values in ascending order, for example '[10 12]'.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri dscp *string*
Tree	dscp
String Length	1 to 185
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description	FlowSpec flow-label component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri flow-label *string*
Tree	flow-label
String Length	1 to 24

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description	FlowSpec fragment component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri fragment *string*
Tree	fragment
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description	FlowSpec ICMP-code component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri icmp-code *string*
Tree	icmp-code
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description	FlowSpec ICMP-type component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri icmp-type *string*
Tree	icmp-type
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmpv6-code *string*

Description	FlowSpec ICMPv6-code component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri icmpv6-code *string*
Tree	icmpv6-code
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmpv6-type *string*

Description	FlowSpec ICMPv6-type component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri icmpv6-type *string*
Tree	icmpv6-type
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description	FlowSpec IP-protocol component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri ip-protocol *string*
Tree	ip-protocol
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-destination-prefix *string*

Description	FlowSpec destination-prefix component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri ipv6-destination-prefix *string*

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Tree	ipv6-destination-prefix
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-source-prefix *string*

Description	FlowSpec source-prefix component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri ipv6-source-prefix *string*
Tree	ipv6-source-prefix
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description	FlowSpec packet-length component
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri packet-length *string*
Tree	packet-length
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description	FlowSpec port component
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri port *string*
Tree	port
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-port *string*

Description	FlowSpec source-port component
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri source-port *string*
Tree	source-port
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description	FlowSpec source-prefix component (IPv4 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri source-prefix *string*
Tree	source-prefix
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description	FlowSpec TCP-flags component
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri tcp-flags *string*
Tree	tcp-flags
String Length	1 to 128
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-layer-protocol *string*

Description	FlowSpec upper-layer-protocol component (IPv6 acl-filter)
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* nlri upper-layer-protocol *string*

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Tree	upper-layer-protocol
String Length	1 to 24
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *keyword*

Description	Which embed source programmed this row (e.g. bgp-flowspec) CLI may display an operational alias such as bgp-fs.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* source *keyword*
Tree	source
Options	• static-config Statically configured • bgp-flowspec BGP Flowspec as embed source • subscriber-management Subscriber management as embed source
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Container for per-entry statistics
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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incomplete *boolean*

Description	Returns true when at least one linecard had insufficient stats resources to ensure an accurate set of values for the number of matched packets, or when not all forwarding complexes reported their counts after control plane switchover.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics incomplete *boolean*
Tree	incomplete
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Time of the last clear command performed by the user at this level or a higher level
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-match *string*

Description	The elapsed time since a packet last matched the entry, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics last-match *string*
Tree	last-match
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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matched-packets *number*

Description	The number of packets matching the entry since it was programmed or since the last clear, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics matched-packets *number*
Tree	matched-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer

Description	Enter the policer context Policer stats for traffic matching the entry: Statistics for policer configured with scope=global and entry-specific=true, and acl configured with subinterface-specific=false.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics policer
Tree	policer
Configurable	False
Platforms	Supported on all platforms

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

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conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

system-cpu-policer

Description	Enter the system-cpu-policer context System CPU policer stats for traffic matching the entry:

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Statistics for system cpu policer configured with scope=global and entry-specific=true, and acl configured with subinterface-specific=false.

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics system-cpu-policer

Tree system-cpu-policer

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics system-cpu-policer conforming-octets *number*

Tree conforming-octets

Default 0

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description The number of packets (actually Ethernet frames) that were considered conforming by the policer

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics system-cpu-policer conforming-packets *number*

Tree conforming-packets

Default 0

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics system-cpu-policer exceeding-octets *number*

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Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* statistics system-cpu-policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam-entries

Description	Enter the tcam-entries context Information about the TCAM entries used to implement the ACL entry
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries
Tree	tcam-entries
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex complex-identifier *string*

Description	List of forwarding complexes in the system
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*
Tree	forwarding-complex
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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complex-identifier *string*

Description	A forwarding complex in the format (slot-number,complex-number).
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

input-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to ingress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then input-total=2. If the entry is not applied to ingress traffic on any subinterfaces of this complex then input-total=0.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* input-total *number*
Tree	input-total
Configurable	False
Platforms	Supported on all platforms

output-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to egress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then output-total= 10. If the entry is not applied to egress traffic on any subinterfaces of this complex then output-total=0.
Context	acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* output-total *number*
Tree	output-total
Configurable	False
Platforms	Supported on all platforms

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single-instance *number*

Description The number of TCAM entries required to implement this entry if it is applied to only one subinterface and one traffic direction specific to this slot.

This is non-zero even if the filter is not applied to any subinterfaces of this complex. It captures the effect of TCAM entry expansion to deal with L4 port or VLAN ranges, for example.

Context acl acl-filter name *string* type *keyword* embedded-entries entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* single-instance *number*

Tree single-instance

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

embedding index *number*

Description Per-source embed configuration

Multiple embedding instances are allowed. Non-overlapping offset and range vs static entries and other embed instances is enforced by the ACL manager.

Context acl acl-filter name *string* type *keyword* embedding index *number*

Tree embedding

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Distinguishes this embed source among up to fifteen bindings on the filter

Context acl acl-filter name *string* type *keyword* embedding index *number*

Range 1 to 15

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-flowspec

Description Enter the bgp-flowspec context

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Context	acl acl-filter name *string* type *keyword* embedding index *number* bgp-flowspec
Tree	bgp-flowspec
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *number*

Description	Interface-set extended-community group-id filter When non-zero, only Flowspec routes carrying this interface-set group-id are embedded. Zero disables group filtering for this source.
Context	acl acl-filter name *string* type *keyword* embedding index *number* bgp-flowspec group *number*
Tree	group
Range	0 to 65535
Default	0
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Network-instance from which Flowspec rules for this embed source are taken (mandatory)
Context	acl acl-filter name *string* type *keyword* embedding index *number* bgp-flowspec network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-entries *number*

Description	Number of dynamic entries this source presented to the filter for embedding, after any network-instance flowspec cap.

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May exceed range: entries beyond range cannot be embedded and are reported in oper-state-reasons as range-exceeded.

Context acl acl-filter name *string* type *keyword* embedding index *number* candidate-entries *number*

Tree candidate-entries

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset *number*

Description Base sequence-id where embedded entries for this source start

Context acl acl-filter name *string* type *keyword* embedding index *number* offset *number*

Tree offset

Range 0 to 65535

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of this embed source on the filter

up when every candidate entry is programmed and the filter is applied. degraded when programmed is greater than zero and the candidate set is not fully programmed (TCAM and/or range). down when programmed is zero, the filter is not applied, or the embed source is unavailable. oper-state-reasons is present when down or degraded.

Context acl acl-filter name *string* type *keyword* embedding index *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory

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- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-reasons *keyword*

Description Reasons this embed source is down or degraded

Absent when oper-state is up. Multiple values may be present together.

Context acl acl-filter name *string* type *keyword* embedding index *number* oper-state-reasons *keyword*

Tree oper-state-reasons

Options

- filter-not-applied

  The filter is not associated in config, or the datapath has no binding of this filter to an interface

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- source-unavailable

  The embed source is not available, for example its referenced network-instance is administratively or operationally down or does not exist
- tcam-resources-exhausted

  Hardware TCAM could not program every candidate entry from this source
- range-exceeded

  candidate-entries exceed this binding range

  Increase range to embed them.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

programmed *number*

Description Number of dynamic entries from this source successfully embedded and programmed into hardware. This count never exceeds candidate-entries or range.

Context acl acl-filter name *string* type *keyword* embedding index *number* programmed *number*

Tree programmed

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

range *number*

Description Maximum embedded entries for this source

Occupies sequence-ids offset through offset plus range minus one; must not overlap static entries or other embed sources.

Context acl acl-filter name *string* type *keyword* embedding index *number* range *number*

Tree range

Range 1 to 65536

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subscriber-management

Description	Enter the subscriber-management context Marks this embedding as the insertion point for dynamic subscriber management filter entries. The parent ACL filter must have owner subscriber-management.
Context	acl acl-filter name *string* type *keyword* embedding index *number* subscriber-management
Tree	subscriber-management
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry sequence-id *number*

Description	List of ACL entries comprising an ACL Filter
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	Supported on all platforms

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number*
Range	0 to 65535
Configurable	True
Platforms	Supported on all platforms

action

Description	Enter the action context Container for the actions to be applied to packets matching the filter entry.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action
Tree	action
Configurable	True

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Platforms	Supported on all platforms

accept

Description	Accept matching packets and forward them towards their normal destination
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action accept
Tree	accept
Configurable	True
Platforms	Supported on all platforms

rate-limit

Description	Enter the rate-limit context Rate-limit accepted packets
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action accept rate-limit
Tree	rate-limit
Configurable	True
Platforms	Supported on all platforms

policer *reference*

Description	Reference to a policer
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action accept rate-limit policer *reference*
Tree	policer
Reference	acl policers policer name
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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system-cpu-policer *reference*

Description	Reference to a system-cpu-policer.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action accept rate-limit system-cpu-policer *reference*
Tree	system-cpu-policer
Reference	acl policers system-cpu-policer name
Configurable	True
Platforms	Supported on all platforms

copy

Description	Create a copy of matching packets extract them to the CPM and deliver them to the designated veth interface
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action copy
Tree	copy
Configurable	True
Platforms	Supported on all platforms

drop

Description	Drop matching packets. Dropped IP packets do not result in sending ICMP messages back to the source
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action drop
Tree	drop
Configurable	True
Platforms	Supported on all platforms

log *boolean*

Description	When this is true, a log is created for each packet matching the entry For IP packets matched by an IP filter entry the log entry contains the following information:
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action log *boolean*
Tree	log

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Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject

Description Reject matching packets.

Rejected IP packets are dropped and ICMP response is messaged back to the source

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* action reject

Tree reject

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v4-message-type *keyword*

Description list of Icmp Destination Unreachable code types

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* action reject v4-message-type *keyword*

Tree v4-message-type

Default administratively-prohibited

Options

- host-unreachable
- protocol-unreachable
- port-unreachable
- source-host-isolated
- destination-network-prohibited
- destination-host-prohibited
- administratively-prohibited

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v6-message-type *keyword*

Description	list of Icmpv6 Destination Unreachable code types
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* action reject v6-message-type *keyword*
Tree	v6-message-type
Default	administratively-prohibited
Options	• administratively-prohibited • source-address-failed • reject-route
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description string for the filter entry
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* description *string*
Tree	description
String Length	1 to 4096
Configurable	True
Platforms	Supported on all platforms

last-clear *string*

Description	Time of the last clear command performed by the user at this level
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* last-clear *string*
Tree	last-clear

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

match

Description	Enter the match context Container for the conditions that determine whether a packet matches this entry
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match
Tree	match
Configurable	True
Platforms	Supported on all platforms

ipv4

Description	Enter the ipv4 context Container for the common layer-3 IPv4 match criteria
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4
Tree	ipv4
Configurable	True
Platforms	Supported on all platforms

destination-ip

Description	Enter the destination-ip context Packet matching criteria based on destination IPv4 address
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip
Tree	destination-ip
Configurable	True
Platforms	Supported on all platforms

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address *string*

Description	Match a packet if its destination IP address logically anded with the inverse of the mask equals this IP address.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip address *string*
Tree	address
Configurable	True
Platforms	Supported on all platforms

mask *string*

Description	Match a packet if its destination IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip mask *string*
Tree	mask
Configurable	True
Platforms	Supported on all platforms

prefix *string*

Description	Match a packet if its destination IP address is within the specified IPv4 prefix.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

prefix-list name *reference*

Description	Match a packet if its destination IP address is within the specified IPv4 prefix list.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip prefix-list name *reference*
Tree	prefix-list
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *reference*

Description	Enter the name context
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 destination-ip prefix-list name *reference*
Reference	acl match-list ipv4-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-set *(number | keyword)*

Description	A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 dscp-set *(number | keyword)*
Tree	dscp-set
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13

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- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-fragment *boolean*

Description Match the first fragment of an IPv4 datagram

A packet matches the true condition if the IPv4 header indicates that the fragment-offset is zero and and the more-fragments bit is 1. It is not valid to configure this leaf without configuring a match value for the fragment leaf.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 first-fragment *boolean*

Tree first-fragment

Configurable True

Platforms Supported on all platforms

fragment *boolean*

Description Match an IPv4 fragment

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A packet matches the true condition if the IPv4 header indicates that the fragment-offset is zero and and the more-fragments bit is 1 or if the IPv4 header indicates that the fragment-offset is greater than 0. A packet matches the false condition if it is unfragmented.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 fragment *boolean*

Tree fragment

Configurable True

Platforms Supported on all platforms

icmp

Description Enter the icmp context

A packet matches this condition if its ICMP type and code matches one of the specified combinations

The rule should also have a condition that the IP protocol equals 1 (ICMP) in order for this to be interpreted correctly.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 icmp

Tree icmp

Configurable True

Platforms Supported on all platforms

code *number*

Description Match if the ICMP code value is any value in the list

Requires ICMP type to be specified because codes are type dependent.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 icmp code *number*

Tree code

Configurable True

Platforms Supported on all platforms

type *(number | keyword)*

Description Match a single ICMP type value.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 icmp type *(number | keyword)*

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Tree	type
Range	0 to 255
Options	• echo-reply ICMP Echo Reply • dest-unreachable ICMP Destination Unreachable • source-quench ICMP Source Quench • redirect ICMP Redirect • echo ICMP Echo • router-advertise ICMP Router Advertisement • router-solicit ICMP Router Solicitation • time-exceeded ICMP Time Exceeded • param-problem ICMP Parameter Problem • timestamp ICMP Timestamp • timestamp-reply ICMP Timestamp Reply
Configurable	True
Platforms	Supported on all platforms

protocol *(number | keyword)*

Description	An IPv4 packet matches this condition if its IP protocol type field matches the specified value
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	• ipv6-hop

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IPv6 hop-by-hop option

- icmp
  Internet Control Message Protocol
- igmp
  Internet Group Management Protocol
- ggp
  Gateway-to-Gateway Protocol
- ipv4
  IPv4 encapsulation
- st
  Stream Protocol
- tcp
  Transmission Control Protocol
- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation
- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts

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Destination Options for IPv6

- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol
- mpls-in-ip
  MPLS Encapsulation inside IP
- rohc
  Robust Header Compression

Configurable True

Platforms Supported on all platforms

source-ip

Description Enter the source-ip context

Packet matching criteria based on source IPv4 address

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip

Tree source-ip

Configurable True

Platforms Supported on all platforms

address *string*

Description Match a packet if its source IP address logically anded with the inverse of the mask equals this IP address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip address *string*

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Tree	address
Configurable	True
Platforms	Supported on all platforms

mask *string*

Description	Match a packet if its source IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip mask *string*
Tree	mask
Configurable	True
Platforms	Supported on all platforms

prefix *string*

Description	Match a packet if its source IP address is within the specified IPv4 prefix.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

prefix-list name *reference*

Description	Match a packet if its source IP address is within the specified IPv4 prefix list.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip prefix-list name *reference*
Tree	prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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Max. Elements	8

name *reference*

Description	Enter the name context
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv4 source-ip prefix-list name *reference*
Reference	acl match-list ipv4-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context Container for the common layer-3 IPv6 match criteria
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6
Tree	ipv6
Configurable	True
Platforms	Supported on all platforms

destination-ip

Description	Enter the destination-ip context Packet matching criteria based on destination IPv6 address
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip
Tree	destination-ip
Configurable	True
Platforms	Supported on all platforms

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address *string*

Description	Match a packet if its destination IP address logically anded with the inverse of the mask equals this IP address.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip address *string*
Tree	address
Configurable	True
Platforms	Supported on all platforms

mask *string*

Description	Match a packet if its destination IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip mask *string*
Tree	mask
Configurable	True
Platforms	Supported on all platforms

prefix *string*

Description	Match a packet if its destination IP address is within the specified IPv6 prefix.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

prefix-list name *reference*

Description	Match a packet if its destination IP address is within the specified IPv6 prefix list.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip prefix-list name *reference*
Tree	prefix-list
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *reference*

Description	Enter the name context
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 destination-ip prefix-list name *reference*
Reference	acl match-list ipv6-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-set *(number | keyword)*

Description	A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 dscp-set *(number | keyword)*
Tree	dscp-set
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13

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- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp6

Description Enter the icmp6 context

A packet matches this condition if its ICMPv6 type and code matches one of the specified combinations

The rule should also have a condition that the next-header value equals 58 (ICMPv6) in order for this to be interpreted correctly.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 icmp6

Tree icmp6

Configurable True

Platforms Supported on all platforms

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code *number*

Description Match if the ICMPv6 code value is any value in the list

Requires ICMPv6 type to be specified because codes are type dependent.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 icmp6 code *number*

Tree code

Configurable True

Platforms Supported on all platforms

type *(number | keyword)*

Description Match a single ICMPv6 type value

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 icmp6 type *(number | keyword)*

Tree type

Range 0 to 255

Options

- dest-unreachable

  ICMPv6 Destination Unreachable
- packet-too-big

  ICMPv6 Packet Too Big
- time-exceeded

  ICMPv6 Time Exceeded
- param-problem

  Parameter Problem
- echo-request

  ICMPv6 Echo Request
- echo-reply

  ICMPv6 Echo Reply
- mld-query

  Multicast Listener Discovery Query
- mld-report

  Multicast Listener Discovery Report
- mld-done

  Multicast Listener Discovery Done
- router-solicit

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ICMPv6 Router Solicitation

- router-advertise
  ICMPv6 Router Advertisement
- neighbor-solicit
  ICMPv6 Neighbor Solicitation
- neighbor-advertise
  ICMPv6 Neighbor Advertisement
- redirect
  ICMPv6 Redirect
- router-renumber
  ICMPv6 Router Renumbering
- node-info-query
  ICMPv6 Node Information Query
- node-info-response
  ICMPv6 Node Information Response
- mld-v2
  Multicast Listener Discovery Version 2
- mcast-rtr-adv
  Multicast Router Advertisement
- mcast-rtr-solicit
  Multicast Router Solicitation
- mcast-rtr-term
  Multicast Router Termination

Configurable True

Platforms Supported on all platforms

next-header *(number | keyword)*

Description An IPv6 packet matches this condition if its first next-header field (in the IPv6 fixed header) contains the specified value

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 next-header *(number | keyword)*

Tree next-header

Range 0 to 255

Options

- ipv6-hop
  IPv6 hop-by-hop option

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- icmp
  Internet Control Message Protocol
- igmp
  Internet Group Management Protocol
- ggp
  Gateway-to-Gateway Protocol
- ipv4
  IPv4 encapsulation
- st
  Stream Protocol
- tcp
  Transmission Control Protocol
- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation
- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6

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- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol
- mpls-in-ip
  MPLS Encapsulation inside IP
- rohc
  Robust Header Compression

Configurable True

Platforms Supported on all platforms

source-ip

Description Enter the source-ip context

Packet matching criteria based on source IPv6 address

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip

Tree source-ip

Configurable True

Platforms Supported on all platforms

address *string*

Description Match a packet if its source IP address logically anded with the inverse of the mask equals this IP address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip address *string*

Tree address

Configurable True

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Platforms	Supported on all platforms

mask *string*

Description	Match a packet if its source IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip mask *string*
Tree	mask
Configurable	True
Platforms	Supported on all platforms

prefix *string*

Description	Match a packet if its source IP address is within the specified IPv6 prefix.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

prefix-list name *reference*

Description	Match a packet if its source IP address is within the specified IPv6 prefix list.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip prefix-list name *reference*
Tree	prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

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name *reference*

Description Enter the name context

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match ipv6 source-ip prefix-list name *reference*

Reference acl match-list ipv6-prefix-list name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l2

Description Enter the l2 context

Container for the common layer-2 match criteria

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2

Tree l2

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-mac

Description Enter the destination-mac context

Ethernet frame matching criteria based on destination MAC address

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 destination-mac

Tree destination-mac

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250

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IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Match an Ethernet frame if its destination MAC address logically anded with the mask equals this MAC address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 destination-mac address *string*

Tree address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match an Ethernet frame if its destination MAC address logically anded with the mask equals the configured MAC address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 destination-mac mask *string*

Tree mask

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethertype *(string | keyword)*

Description An Ethernet frame matches this condition if its ethertype value (after 802.1Q VLAN tags) matches the specified value

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 ethertype *(string | keyword)*

Tree ethertype

Options

- ipv4

  Internet Protocol version 4. Ethertype 0x0800.

- arp

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Address Resolution Protocol. Ethertype 0x0806.

- ipv6
  Internet Protocol version 6. Ethertype 0x86DD.
- flow-control
  Ethernet flow control PAUSE frames. Ethertype 0x8808
- lacp
  LACP. Ethertype 0x8809.
- mpls-unicast
  MPLS unicast. Ethertype 0x8847.
- mpls-multicast
  MPLS multicast. Ethertype 0x8848.
- pppoe-discovery
  PPPoE discovery. Ethertype 0x8863.
- pppoe-session
  PPPoE session. Ethertype 0x8864.
- 8021x-authentication
  802.1x authentication (EAP). Ethertype 0x888E.
- lldp
  Link Layer Discovery Protocol. Ethertype 0x88CC.
- macsec
  IEEE 802.1AE MAC security. Ethertype 0x88E5.
- pbb
  Provider Backbone Bridging. Ethertype 0x88E7.
- ptp
  Precision Time Protocol. Ethertype 0x88F7.
- eth-oam
  IEEE 802.1ag CFM and ITU-T Y.1731 OAM. Ethertype 0x8902.
- fcoe
  Fibre Channel over Ethernet. Ethertype 0x8906.
- fcoe-initialization
  Fibre Channel over Ethernet Initialization Protocol. Ethertype 0x8914.
- roce
  RDMA over Converged Ethernet. Ethertype 0x8915.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-mac

Description Enter the source-mac context

Ethernet frame matching criteria based on source MAC address

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 source-mac

Tree source-mac

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Match an Ethernet frame if its source MAC address logically anded with the mask equals this MAC address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 source-mac address *string*

Tree address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match an Ethernet frame if its source MAC address logically anded with the mask equals the configured MAC address.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 source-mac mask *string*

Tree mask

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan

Description Enter the vlan context

Ethernet frame matching criteria based on VLAN tags

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan

Tree vlan

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outermost-vlan-id

Description Enter the outermost-vlan-id context

Ethernet frame matching criteria based on the outermost VLAN ID found before the subinterface-defining VLAN tag (if any) is removed.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id

Tree outermost-vlan-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

none

Description When configured, only untagged frames are matched.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id none

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Tree	none
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operator *keyword*

Description	Comparison operator eq = equal ge = greater than or equal to le = less than or equal to
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id operator *keyword*
Tree	operator
Options	• le Less than or equal. • ge Greater than or equal. • eq Equal to.
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range

Description	Enter the range context Container used to specify a contiguous range of VLAN IDs. Matched values include the start and end values.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id range
Tree	range
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *number*

Description The ending VLAN ID to include in the range

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id range end *number*

Tree end

Range 0 to 4095

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *number*

Description The starting VLAN ID to include in the range

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id range start *number*

Tree start

Range 0 to 4095

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description A VLAN ID number

A value of zero is used to match priority-tagged 802.1Q frames.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match l2 vlan outermost-vlan-id value *number*

Tree value

Range 0 to 4095

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport

Description	Enter the transport context Container for the common layer-4 transport match criteria
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport
Tree	transport
Configurable	True
Platforms	Supported on all platforms

destination-port

Description	Enter the destination-port context A packet matches this condition if its destination TCP or UDP port number matches the value or range or within the port-lists that is specified The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port
Tree	destination-port
Configurable	True
Platforms	Supported on all platforms

operator *keyword*

Description	Comparison operator eq = equal ge = greater than or equal to le = less than or equal to
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port operator *keyword*
Tree	operator
Options	• le

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Less than or equal.

- ge

  Greater than or equal.

- eq

  Equal to.

Configurable True

Platforms Supported on all platforms

port-list name *reference*

Description Name of the port list

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port port-list name *reference*

Tree port-list

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

name *reference*

Description Enter the name context

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port port-list name *reference*

Reference acl match-list port-list name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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range

Description Enter the range context

Container used to specify a contiguous range of TCP/UDP port numbers

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port range

Tree range

Configurable True

Platforms Supported on all platforms

end *(number | keyword)*

Description The ending port number to include in the range

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

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BFD Echo

- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard

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Discard Protocol. Also Wake-on-LAN.

- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster

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Linux-HA high-availability heartbeat

- hostname

  NIC hostname server
- hp-alarm-mgr

  HP data alarm manager
- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)

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- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A

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- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol

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- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)

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- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap

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- rsync

  rsync file synchronization protocol
- rtelnet

  Remote User Telnet Service (RTelnet)
- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)

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- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)
- time
  Time Protocol
- timed
  Timeserver
- ups
  Uninterruptible power supply (UPS)
- xdmcp
  X Display Manager Control Protocol (XDMCP)
- xns-ch
  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail
  Xerox Network Systems (XNS) Mail
- xns-time
  Xerox Network Systems (XNS) Time Protocol
- z3950
  ANSI Z39.50

Configurable True

Platforms Supported on all platforms

start *(number | keyword)*

Description The starting port number to include in the range

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port range start *(number | keyword)*

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Tree start

Range 0 to 65535

Options

- acap
  Application Configuration Access Protocol
- afp-tcp
  Apple Filing Protocol over TCP
- arns
  A Remote Network Server System
- asf-rmcp
  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare
  AppleShare IP Web Administration
- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen

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Character Generator Protocol (CHARGEN)

- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec

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Remote Process Execution (Rexec)

- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https

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Hypertext Transfer Protocol over TLS/SSL

- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password

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- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor
- mpp

  Message posting protocol (MPP)
- mssql-m

  Microsoft SQL Server database management system (MSSQL) monitor

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- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)

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- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
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  Post Office Protocol, version 2 (POP2)
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  Post Office Protocol, version 3 (POP3)
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  Post Office Protocol 3 over TLS/SSL (POP3S)
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  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol

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- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server

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- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

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- submission

  Email message submission (SMTP)
- sunrpc

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- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol

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- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms Supported on all platforms

value *(number | keyword)*

Description A destination port number

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport destination-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
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  AppleTalk Routing Maintenance

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  BFD Echo
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  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
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- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
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  CCSO Nameserver
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  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client

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Use subject to Terms available at: www.nokia.com/terms.

- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
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  Discard Protocol. Also Wake-on-LAN.
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  DNSIX security protocol auditing
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- ftp-data
  File Transfer Protocol data
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  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol

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- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
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  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
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  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx
  Internetwork Packet Exchange (IPX)

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- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

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  IPSec NAT Traversal
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  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
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- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
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  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

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Line Printer Daemon

- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1

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NETRJS protocol

- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp

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PKIX Time Stamp Protocol (TSP)

- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb

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RLZ DBase

- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission

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Email message submission (SMTP)

- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

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Configurable True

Platforms Supported on all platforms

source-port

Description Enter the source-port context

A packet matches this condition if its source TCP or UDP port number matches the value or range or within the port-lists that is specified

The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port

Tree source-port

Configurable True

Platforms Supported on all platforms

operator *keyword*

Description Comparison operator

eq = equal ge = greater than or equal to le = less than or equal to

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port operator *keyword*

Tree operator

Options

- le

  Less than or equal.
- ge

  Greater than or equal.
- eq

  Equal to.

Configurable True

Platforms Supported on all platforms

port-list name *reference*

Description Name of the port list

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port port-list name *reference*

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Tree	port-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *reference*

Description	Enter the name context
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port port-list name *reference*
Reference	acl match-list port-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range

Description	Enter the range context Container used to specify a contiguous range of TCP/UDP port numbers
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port range
Tree	range
Configurable	True
Platforms	Supported on all platforms

end *(number | keyword)*

Description	The ending port number to include in the range

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Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

  BFD Echo
- bftp

  Background File Transfer Program
- bgmp

  Border Gateway Multicast Protocol
- bgp

  Border Gateway Protocol
- bootpc

  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps

  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns

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CCSO Nameserver

- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro

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Efficient Short Remote Operations (ESRO)

- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc

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Remote procedure call over Hypertext Transfer Protocol

- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login

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- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor
- mpp

  Message posting protocol (MPP)

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- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who

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- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)

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- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)

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- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission
  Email message submission (SMTP)
- sunrpc
  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc
  Service Location Protocol (SLP)
- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)

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- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms Supported on all platforms

start *(number | keyword)*

Description The starting port number to include in the range

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port range start *(number | keyword)*

Tree start

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration

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- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol

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- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol

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- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)

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Use subject to Terms available at: www.nokia.com/terms.

- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
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  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

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rlogin (TCP) or Who (UDP)

- lpd
  Line Printer Daemon
- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp

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NetWare Core Protocol

- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp

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PIM Auto-RP

- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp

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Resource Location Protocol

- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh

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Secure Shell Protocol

- submission

  Email message submission (SMTP)

- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC

- svcloc

  Service Location Protocol (SLP)

- syslog

  Syslog (UDP) and Remote Shell (TCP)

- systat

  Active Users (systat service)

- tacacs

  TACACS Login Host protocol

- talk

  Talk

- tcpmux

  TCP Port Service Multiplexer (TCPMUX)

- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services

- tftp

  Trivial File Transfer Protocol (TFTP)

- time

  Time Protocol

- timed

  Timeserver

- ups

  Uninterruptible power supply (UPS)

- xdmcp

  X Display Manager Control Protocol (XDMCP)

- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)

- xns-mail

  Xerox Network Systems (XNS) Mail

- xns-time

  Xerox Network Systems (XNS) Time Protocol

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- z3950

  ANSI Z39.50

Configurable True

Platforms Supported on all platforms

value *(number | keyword)*

Description A source port number

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport source-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

  BFD Echo
- bftp

  Background File Transfer Program
- bgmp

  Border Gateway Multicast Protocol

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- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System

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- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager

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- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol

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- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services

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- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service

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- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages

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- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)

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- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission
  Email message submission (SMTP)
- sunrpc
  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc
  Service Location Protocol (SLP)
- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk

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- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)
- time
  Time Protocol
- timed
  Timeserver
- ups
  Uninterruptible power supply (UPS)
- xdmcp
  X Display Manager Control Protocol (XDMCP)
- xns-ch
  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail
  Xerox Network Systems (XNS) Mail
- xns-time
  Xerox Network Systems (XNS) Time Protocol
- z3950
  ANSI Z39.50

Configurable True

Platforms Supported on all platforms

tcp-flags *string*

Description A logical expression using the &, | and ! logical operators and the TCP flag names: rst, syn and ack.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* match transport tcp-flags *string*

Tree tcp-flags

String Length 1 to 255

Configurable True

Platforms Supported on all platforms

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statistics

Description	Enter the statistics context Container for per-entry statistics
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

incomplete *boolean*

Description	Returns true when at least one linecard had insufficient stats resources to ensure an accurate set of values for the number of matched packets, or when not all forwarding complexes reported their counts after control plane switchover.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics incomplete *boolean*
Tree	incomplete
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Time of the last clear command performed by the user at this level or a higher level
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-match *string*

Description	The elapsed time since a packet last matched the entry, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL

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Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics last-match *string*
Tree	last-match
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

matched-packets *number*

Description	The number of packets matching the entry since it was programmed or since the last clear, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics matched-packets *number*
Tree	matched-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

policer

Description	Enter the policer context Policer stats for traffic matching the entry: Statistics for policer configured with scope=global and entry-specific=true, and acl configured with subinterface-specific=false.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics policer
Tree	policer
Configurable	False
Platforms	Supported on all platforms

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics policer conforming-octets *number*
Tree	conforming-octets

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Default	0
Configurable	False
Platforms	Supported on all platforms

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

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system-cpu-policer

Description Enter the system-cpu-policer context

System CPU policer stats for traffic matching the entry:

Statistics for system cpu policer configured with scope=global and entry-specific=true, and acl configured with subinterface-specific=false.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics system-cpu-policer

Tree system-cpu-policer

Configurable False

Platforms Supported on all platforms

conforming-octets *number*

Description The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics system-cpu-policer conforming-octets *number*

Tree conforming-octets

Default 0

Configurable False

Platforms Supported on all platforms

conforming-packets *number*

Description The number of packets (actually Ethernet frames) that were considered conforming by the policer

Context acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics system-cpu-policer conforming-packets *number*

Tree conforming-packets

Default 0

Configurable False

Platforms Supported on all platforms

exceeding-octets *number*

Description The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

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Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics system-cpu-policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics system-cpu-policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

tcam-entries

Description	Enter the tcam-entries context Information about the TCAM entries used to implement the ACL entry
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries
Tree	tcam-entries
Configurable	False
Platforms	Supported on all platforms

forwarding-complex complex-identifier *string*

Description	List of forwarding complexes in the system
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*
Tree	forwarding-complex
Configurable	False
Platforms	Supported on all platforms

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complex-identifier *string*

Description	A forwarding complex in the format (slot-number,complex-number).
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*
Configurable	False
Platforms	Supported on all platforms

input-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to ingress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then input-total=2. If the entry is not applied to ingress traffic on any subinterfaces of this complex then input-total=0.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* input-total *number*
Tree	input-total
Configurable	False
Platforms	Supported on all platforms

output-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to egress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then output-total= 10. If the entry is not applied to egress traffic on any subinterfaces of this complex then output-total=0.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* output-total *number*
Tree	output-total
Configurable	False
Platforms	Supported on all platforms

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single-instance *number*

Description	The number of TCAM entries required to implement this entry if it is applied to only one subinterface and one traffic direction specific to this slot. This is non-zero even if the filter is not applied to any subinterfaces of this complex. It captures the effect of TCAM entry expansion to deal with L4 port or VLAN ranges, for example.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* single-instance *number*
Tree	single-instance
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Time of the last clear command performed by the user at this level
Context	acl acl-filter name *string* type *keyword* last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl acl-filter name *string* type *keyword* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

statistics-per-entry *boolean*

Description	Collect statistics for each entry of the ACL. If this is set to false no hardware resources are allocated to collecting statistics for this ACL policy. The exact set of statistics depend on the subinterface-specific mode
Context	acl acl-filter name *string* type *keyword* statistics-per-entry *boolean*
Tree	statistics-per-entry

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Configurable	True
Platforms	Supported on all platforms

subinterface-specific *keyword*

Description	Controls the instantiation of the filter when it is applied as an input or output ACL disabled: all subinterfaces on a single linecard that reference the ACL as an input ACL use a shared filter instance, and all subinterfaces on a single linecard that reference the ACL as an output ACL use a shared filter instance input-only: all subinterfaces on a single linecard that reference the ACL as an output ACL use a shared filter instance, but each subinterface that references the ACL as an input ACL uses its own separate instance of the filter output-only: all subinterfaces on a single linecard that reference the ACL as an input ACL use a shared filter instance, but each subinterface that references the ACL as an output ACL uses its own separate instance of the filter input-and-output: each subinterface that references the ACL as either an input ACL or an output ACL uses its own separate instance of the filter
Context	acl acl-filter name *string* type *keyword* subinterface-specific *keyword*
Tree	subinterface-specific
Default	disabled
Options	• disabled • input-only • output-only • input-and-output
Configurable	True
Platforms	Supported on all platforms

datapath-programming

Description	Enter the datapath-programming context Container to represent the progress of ACL datapath programming
Context	acl datapath-programming
Tree	datapath-programming
Configurable	False
Platforms	Supported on all platforms

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forwarding-complex slot-id *number* complex-id *number*

Description	List of forwarding complexes that are currently installed and online
Context	acl datapath-programming forwarding-complex slot-id *number* complex-id *number*
Tree	forwarding-complex
Configurable	False
Platforms	Supported on all platforms

slot-id *number*

Description	The slot id
Context	acl datapath-programming forwarding-complex slot-id *number* complex-id *number*
Configurable	False
Platforms	Supported on all platforms

complex-id *number*

Description	The complex id
Context	acl datapath-programming forwarding-complex slot-id *number* complex-id *number*
Range	0 to 1
Configurable	False
Platforms	Supported on all platforms

last-completed-timestamp *string*

Description	The date and time when the forwarding complex last completed all datapath programming related to prior ACL configuration changes.
Context	acl datapath-programming forwarding-complex slot-id *number* complex-id *number* last-completed-timestamp *string*
Tree	last-completed-timestamp
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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programming-complete *boolean*

Description	Reads false when there are still pending entries to program from prior configuration transactions Reads true when all datapath programming related to all prior ACL configuration changes is complete
Context	acl datapath-programming forwarding-complex slot-id *number* complex-id *number* programming-complete *boolean*
Tree	programming-complete
Configurable	False
Platforms	Supported on all platforms

egress-mac-filtering *boolean*

Description	Must be set to true in order to apply any MAC ACLs to any subinterface in the egress traffic direction. Internally this sets the following limits: Remember that the number of ACL instances per ACL policy is greater than one if subinterface-specific is set to input-and-output or output-only. A setting of true is blocked if the number of IPv4 ACL instances applied to egress traffic is already greater than 32, or if the number of IPv6 ACL instances applied to egress traffic is already greater than 32.
Context	acl egress-mac-filtering *boolean*
Tree	egress-mac-filtering
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface interface-id *string*

Description	List of interfaces and subinterfaces referencing ACL filters.
Context	acl interface interface-id *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms
Max. Elements	16383

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interface-id *string*

Description	Identifier for the interface or subinterface.
Context	acl interface interface-id *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

input

Description	Enter the input context Container for ACL filters that apply to ingress traffic on the subinterface
Context	acl interface interface-id *string* input
Tree	input
Configurable	True
Platforms	Supported on all platforms

acl-filter name *reference* type *reference*

Description	MAC, IPv4, IPv6 ACL filter(s) to be applied on this subinterface direction On 7220 and 7250 IXR platforms only a single MAC, IPv4 or IPv6 filter is supported.
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms
Max. Elements	4

name *reference*

Description	Enter the name context
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference*
Reference	acl acl-filter name
Configurable	True
Platforms	Supported on all platforms

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type *reference*

Description	Enter the type context
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference*
Reference	acl acl-filter type
Configurable	True
Platforms	Supported on all platforms

entry sequence-id *reference*

Description	ACL Filter statistics per entry and per subinterface
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference*
Tree	entry
Configurable	False
Platforms	Supported on all platforms

sequence-id *reference*

Description	Reference to type entry ID key
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference*
Reference	acl acl-filter entry sequence-id
Configurable	False
Platforms	Supported on all platforms

policer

Description	Enter the policer context Policer stats for traffic matching the entry: Statistics under /acl/interfaces for policer configured with scope=subinterface and entry-specific=true, and acl configured with subinterface-specific=input-and-output.
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* policer
Tree	policer
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

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Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Container for per-entry statistics
Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* statistics
Tree	statistics
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

incomplete *boolean*

Description Returns true when at least one linecard had insufficient stats resources to ensure an accurate set of values for the number of matched packets, or when one or more forwarding complexes have not yet contributed their counts after control plane switchover.

Context acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* statistics incomplete *boolean*

Tree incomplete

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Time of the last clear command performed by the user at this level or a higher level

Context acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-match *string*

Description The elapsed time since a packet last matched the entry, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL

Context acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* statistics last-match *string*

Tree last-match

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

matched-packets *number*

Description The number of packets matching the entry since it was programmed or since the last clear, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL

Context acl interface interface-id *string* input acl-filter name *reference* type *reference* entry sequence-id *reference* statistics matched-packets *number*

Tree matched-packets

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

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Context	acl interface interface-id *string* input acl-filter name *reference* type *reference* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Container for policer scope=subinterface and per-entry-statistics=false statistics
Context	acl interface interface-id *string* input statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Time of the last clear command performed by the user at this level
Context	acl interface interface-id *string* input statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer

Description	Enter the policer context Policer stats for traffic matching one or multiple entries: List of ACL policer statistics of scope=subinterface and per-entry-statistics=false, and acl configured with subinterface-specific=false.

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Context	acl interface interface-id *string* input statistics policer
Tree	policer
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* input statistics policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl interface interface-id *string* input statistics policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* input statistics policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl interface interface-id *string* input statistics policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description	Enter the interface-ref context Reference to an interface or subinterface
Context	acl interface interface-id *string* interface-ref
Tree	interface-ref
Configurable	True
Platforms	Supported on all platforms

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interface *reference*

Description	Reference to a base interface, for example a port or LAG
Context	acl interface interface-id *string* interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	Supported on all platforms

subinterface *reference*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	acl interface interface-id *string* interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	Supported on all platforms

output

Description	Enter the output context Container for ACL filters that apply to egress traffic on the subinterface
Context	acl interface interface-id *string* output
Tree	output
Configurable	True
Platforms	Supported on all platforms except 7215

acl-filter name *reference* type *reference*

Description	MAC, IPv4, IPv6 ACL filter(s) to be applied on this subinterface direction On 7220 and 7250 IXR platforms only a single MAC, IPv4 or IPv6 filter is supported.
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference*

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Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms except 7215
Max. Elements	4

name *reference*

Description	Enter the name context
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference*
Reference	acl acl-filter name
Configurable	True
Platforms	Supported on all platforms except 7215

type *reference*

Description	Enter the type context
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference*
Reference	acl acl-filter type
Configurable	True
Platforms	Supported on all platforms except 7215

entry sequence-id *reference*

Description	ACL Filter statistics per entry and per subinterface
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference*
Tree	entry
Configurable	False
Platforms	Supported on all platforms except 7215

sequence-id *reference*

Description	Reference to type entry ID key
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference*

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Reference	acl acl-filter entry sequence-id
Configurable	False
Platforms	Supported on all platforms except 7215

policer

Description	Enter the policer context Policer stats for traffic matching the entry: Statistics under /acl/interfaces for policer configured with scope=subinterface and entry-specific=true, and acl configured with subinterface-specific=input-and-output.
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* policer
Tree	policer
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer

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Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Container for per-entry statistics

Context acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

incomplete *boolean*

Description Returns true when at least one linecard had insufficient stats resources to ensure an accurate set of values for the number of matched packets, or when one or more forwarding complexes have not yet contributed their counts after control plane switchover.

Context acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* statistics incomplete *boolean*

Tree incomplete

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Time of the last clear command performed by the user at this level or a higher level

Context acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* statistics last-clear *string*

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Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-match *string*

Description	The elapsed time since a packet last matched the entry, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* statistics last-match *string*
Tree	last-match
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

matched-packets *number*

Description	The number of packets matching the entry since it was programmed or since the last clear, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* entry sequence-id *reference* statistics matched-packets *number*
Tree	matched-packets
Default	0
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	acl interface interface-id *string* output acl-filter name *reference* type *reference* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms except 7215

statistics

Description	Enter the statistics context Container for policer scope=subinterface and per-entry-statistics=false statistics
Context	acl interface interface-id *string* output statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Time of the last clear command performed by the user at this level
Context	acl interface interface-id *string* output statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer

Description	Enter the policer context Policer stats for traffic matching one or multiple entries: List of ACL policer statistics of scope=subinterface and per-entry-statistics= false, and acl configured with subinterface-specific=false.
Context	acl interface interface-id *string* output statistics policer
Tree	policer
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* output statistics policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer

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Context	acl interface interface-id *string* output statistics policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl interface interface-id *string* output statistics policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl interface interface-id *string* output statistics policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4-tcam-action-profile *keyword*

Description	This profile selects between IPv4 ACL log and reject actions and BGP Flow Spec redirect programming in hardware
Context	acl ipv4-tcam-action-profile *keyword*
Tree	ipv4-tcam-action-profile
Default	acl-log-reject
Options	• acl-log-reject IPv4 ACL filter entries may use the log and reject actions BGP FlowSpec redirect actions are not programmed in hardware; BGP marks affected routes flowspec-unsupported-action • bgp-flowspec-redirect Hardware TCAM action encoding is repurposed so BGP FlowSpec redirect actions are programmed In this mode IPv4 ACL filter entries cannot use the log or reject actions. No user-configurable redirect action is added to ACLs; redirect is driven only by BGP FlowSpec
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-list

Description	Enter the match-list context Top level container for match list model config and operational state data
Context	acl match-list
Tree	match-list
Configurable	True
Platforms	Supported on all platforms

ipv4-prefix-list name *string*

Description	A user defined IPv4 prefix list description
Context	acl match-list ipv4-prefix-list name *string*
Tree	ipv4-prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2048

name *string*

Description Reference to the name of the IPv4 prefix list

Context acl match-list ipv4-prefix-list name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

apply-path index *number*

Description Specifies a filter match list IP prefix lists apply-path

Context acl match-list ipv4-prefix-list name *string* apply-path index *number*

Tree apply-path

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description This object specifies an index of the selection criterion

Context acl match-list ipv4-prefix-list name *string* apply-path index *number*

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Range	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance

Description	Enter the network-instance context Reference to a specific network-instance, either name or regular-expression to match multiple network-instances
Context	acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance
Tree	network-instance
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match *reference*

Description	Enter the match context
Context	acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance match *reference*
Tree	match
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-pattern *string*

Description Enter the match-pattern context

Context acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance match-pattern *string*

Tree match-pattern

String Length 1 to 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description Enter the source context

Context acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source

Tree source

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description This object specifies a match condition on the IP or IPv6 address of configured interfaces

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Context	acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source interface *string*
Tree	interface
String Length	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol

Description	Enter the protocol context
Context	acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source protocol
Tree	protocol
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp

Description	Enter the bgp context
Context	acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source protocol bgp
Tree	bgp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description This specifies a match condition on the group name of configured bgp peers

Context acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source protocol bgp group *string*

Tree group

String Length 1 to 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *string*

Description This specifies a match condition on the IP or IPv6 addresses of configured bgp peers

Context acl match-list ipv4-prefix-list name *string* apply-path index *number* network-instance source protocol bgp neighbor *string*

Tree neighbor

String Length 1 to 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Description string for the prefix list

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Context	acl match-list ipv4-prefix-list name *string* description *string*
Tree	description
String Length	1 to 4096
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix ipv4-prefix *string*

Description	List of IPv4 prefixes
Context	acl match-list ipv4-prefix-list name *string* prefix ipv4-prefix *string*
Tree	prefix
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8192

ipv4-prefix *string*

Description	A user defined IPv4 prefix
Context	acl match-list ipv4-prefix-list name *string* prefix ipv4-prefix *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-prefix-list name *string*

Description	A user defined IPv6 prefix list description
Context	acl match-list ipv6-prefix-list name *string*
Tree	ipv6-prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2048

name *string*

Description	Reference to the name of the IPv6 prefix list
Context	acl match-list ipv6-prefix-list name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

apply-path index *number*

Description	Specifies a filter match list IP prefix lists apply-path
Context	acl match-list ipv6-prefix-list name *string* apply-path index *number*
Tree	apply-path
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description This object specifies an index of the selection criterion

Context acl match-list ipv6-prefix-list name *string* apply-path index *number*

Range 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance

Description Enter the network-instance context

Reference to a specific network-instance, either name or regular-expression to match multiple network-instances

Context acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance

Tree network-instance

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match *reference*

Description Enter the match context

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Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance match *reference*
Tree	match
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-pattern *string*

Description	Enter the match-pattern context
Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance match-pattern *string*
Tree	match-pattern
String Length	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description	Enter the source context
Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source
Tree	source
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description This object specifies a match condition on the IP or IPv6 address of configured interfaces

Context acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source interface *string*

Tree interface

String Length 1 to 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol

Description Enter the protocol context

Context acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source protocol

Tree protocol

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp

Description Enter the bgp context

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Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source protocol bgp
Tree	bgp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	This specifies a match condition on the group name of configured bgp peers
Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source protocol bgp group *string*
Tree	group
String Length	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *string*

Description	This specifies a match condition on the IP or IPv6 addresses of configured bgp peers
Context	acl match-list ipv6-prefix-list name *string* apply-path index *number* network-instance source protocol bgp neighbor *string*
Tree	neighbor
String Length	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Description string for the prefix list

Context acl match-list ipv6-prefix-list name *string* description *string*

Tree description

String Length 1 to 4096

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix ipv6-prefix *string*

Description List of IPv6 prefixes

Context acl match-list ipv6-prefix-list name *string* prefix ipv6-prefix *string*

Tree prefix

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8192

ipv6-prefix *string*

Description A user defined IPv6 prefix

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Context	acl match-list ipv6-prefix-list name *string* prefix ipv6-prefix *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-list name *string*

Description	A user defined L4 port list
Context	acl match-list port-list name *string*
Tree	port-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2048

name *string*

Description	Reference to the name of the port list
Context	acl match-list port-list name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description	Description string for the port list
Context	acl match-list port-list name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port id *number*

Description	List of ports or port-ranges
Context	acl match-list port-list name *string* port id *number*
Tree	port
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	64

id *number*

Description	Identifier of the port-list entry
Context	acl match-list port-list name *string* port id *number*
Range	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range

Description Enter the range context

Container used to specify a contiguous range of TCP/UDP port numbers

Context acl match-list port-list name *string* port id *number* range

Tree range

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *(number | keyword)*

Description The ending port number to include in the range

Context acl match-list port-list name *string* port id *number* range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance

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- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client

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- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol

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- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx
  Internetwork Packet Exchange (IPX)

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- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

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Line Printer Daemon

- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1

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NETRJS protocol

- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp

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PKIX Time Stamp Protocol (TSP)

- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb

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RLZ DBase

- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission

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Email message submission (SMTP)

- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *(number | keyword)*

Description	The starting port number to include in the range
Context	acl match-list port-list name *string* port id *number* range start *(number | keyword)*
Tree	start
Range	0 to 65535
Options	• acap Application Configuration Access Protocol • afp-tcp Apple Filing Protocol over TCP • arns A Remote Network Server System • asf-rmcp ASF Remote Management and Control Protocol & IPMI Remote Management Protocol • ashare AppleShare IP Web Administration • atalk-rm AppleTalk Routing Maintenance • aurp AppleTalk Update-Based Routing Protocol • auth Authentication Service • bfd Bidirectional Forwarding Detection Single Hop • bfd-echo BFD Echo • bftp

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Background File Transfer Program

- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix

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DNSIX security protocol auditing

- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname

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NIC hostname server

- hp-alarm-mgr

  HP data alarm manager
- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal

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- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B

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- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service

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- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)

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- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol

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- rtelnet

  Remote User Telnet Service (RTelnet)
- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)

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- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)
- time
  Time Protocol
- timed
  Timeserver
- ups
  Uninterruptible power supply (UPS)
- xdmcp
  X Display Manager Control Protocol (XDMCP)
- xns-ch
  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail
  Xerox Network Systems (XNS) Mail
- xns-time
  Xerox Network Systems (XNS) Time Protocol
- z3950
  ANSI Z39.50

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(number | keyword)*

Description A destination port number

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Context acl match-list port-list name *string* port id *number* value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap
  Application Configuration Access Protocol
- afp-tcp
  Apple Filing Protocol over TCP
- arns
  A Remote Network Server System
- asf-rmcp
  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare
  AppleShare IP Web Administration
- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver

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- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)

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- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol

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- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password

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- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor
- mpp

  Message posting protocol (MPP)
- mssql-m

  Microsoft SQL Server database management system (MSSQL) monitor

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- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)

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- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol

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- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server

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- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol

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- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policers

Description Enter the policers context

Container for policer definitions used by ACL entries

Context acl policers

Tree policers

Configurable True

Platforms Supported on all platforms

policer name *string*

Description List of policer templates used in subintreface and CPM Filter ACL.

Context acl policers policer name *string*

Tree policer

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User-defined name of the policer
Context	acl policers policer name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-specific *boolean*

Description	Controls the instantiation of the policer between filter entries false: one policer instance is created from this template and it is shared by all entries of in the same ACL filter that refer to this policer true: multiple policer instances are created from this template, one for each ACL filter entry that refers to this policer
Context	acl policers policer name *string* entry-specific *boolean*
Tree	entry-specific
Default	false
Configurable	True
Platforms	Supported on all platforms

maximum-burst-packet *number*

Description	The maximum depth of the policer bucket in number of packets
Context	acl policers policer name *string* maximum-burst-packet *number*

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Tree	maximum-burst-packet
Range	32 to 126976
Default	32
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-burst-size *number*

Description	The MBS bucket depth in bytes
Context	acl policers policer name *string* maximum-burst-size *number*
Tree	maximum-burst-size
Range	1 to 125000000
Units	bytes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate-kbps *number*

Description	The peak information rate (PIR) in kbps (bucket empty/fill rate).
Context	acl policers policer name *string* peak-rate-kbps *number*
Tree	peak-rate-kbps
Range	1 to 800000000
Units	kbps
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate-pps *number*

Description The maximum number of packets per second (bucket empty/fill rate)

Context acl policers policer name *string* peak-rate-pps *number*

Tree peak-rate-pps

Range 64 to 4000000

Default 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scope *keyword*

Description Controls the instantiation of the policer between subinterfaces

global: policer is instantiated per direction and shared between ACL, requires filter subinterface-specific disabled

subinterface: policer is instantiated per subinterface and per direction, requires filter subinterface-specific input-and-ouput

Context acl policers policer name *string* scope *keyword*

Tree scope

Default global

Options

- global
- subinterface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Container for linecard policer statistics.

Context acl policers policer name *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate

Description Enter the aggregate context

None of these statistics are populated if the policer is configured as entry-specific=true.

If entry-specific=false and subinterface-specific=true, this is sum of all the entries and all the policer templates instantiated for all subintrefaces.

If entry-specific=false and subinterface-specific=false, this is sum of all the entries using this policer template.

Context acl policers policer name *string* statistics aggregate

Tree aggregate

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

Context acl policers policer name *string* statistics aggregate conforming-octets *number*

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Tree	conforming-octets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl policers policer name *string* statistics aggregate conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl policers policer name *string* statistics aggregate exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250

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IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description The number of packets (actually Ethernet frames) that were considered exceeding by the policer

Context acl policers policer name *string* statistics aggregate exceeding-packets *number*

Tree exceeding-packets

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Time of the last clear command that applied to these statistics

Context acl policers policer name *string* statistics aggregate last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-cpu-policer name *string*

Description List of system CPU policer templates. For each policer in this list one or more policer instances are implemented in the XDP-CPM software and these policer instances process the aggregate of terminating traffic received from all linecards.

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Context	acl policers system-cpu-policer name *string*
Tree	system-cpu-policer
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	User-defined name of the policer
Context	acl policers system-cpu-policer name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

entry-specific *boolean*

Description	If set to false, only one policer instance is created from this template and it is shared by all entries of all cpm-filter ACLs that refer to this policer. If set to true, multiple policer instances are created from this template, one for each cpm-filter entry that refers to the policer template.
Context	acl policers system-cpu-policer name *string* entry-specific *boolean*
Tree	entry-specific
Default	false
Configurable	True
Platforms	Supported on all platforms

maximum-burst-packet *number*

Description	The maximum depth of the policer bucket in number of packets
Context	acl policers system-cpu-policer name *string* maximum-burst-packet *number*
Tree	maximum-burst-packet
Range	16 to 4000000
Default	16
Configurable	True
Platforms	Supported on all platforms

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peak-rate-pps *number*

Description	The maximum number of packets per second (bucket empty/fill rate)
Context	acl policers system-cpu-policer name *string* peak-rate-pps *number*
Tree	peak-rate-pps
Range	1 to 4000000
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Container for system CPU policer statistics None of these statistics are populated if the policer is configured as entry-specific=true.
Context	acl policers system-cpu-policer name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl policers system-cpu-policer name *string* statistics conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	acl policers system-cpu-policer name *string* statistics conforming-packets *number*

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Tree	conforming-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	acl policers system-cpu-policer name *string* statistics exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	acl policers system-cpu-policer name *string* statistics exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Time of the last clear command that applied to these statistics
Context	acl policers system-cpu-policer name *string* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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4 bfd

```
bfd
+  micro-bfd-sessions
   +  lag-interface name reference
      +  admin-state keyword
      +  desired-minimum-transmit-interval number
      +  detection-multiplier number
      +  local-address (ipv4-address | ipv6-address)
      -  member-interface name string
         -  active-receive-interval number
         -  active-transmit-interval number
         -  async
            -  last-clear string
            -  last-packet-received string
            -  last-packet-transmitted string
            -  received-errored-packets number
            -  received-packets number
            -  transmitted-packets number
            -  up-transitions number
         x  clear
         -  failure-transitions number
         -  last-failure-time string
         -  last-state-transition string
         -  local-diagnostic-code keyword
         -  local-discriminator number
         -  remote-control-plane-independent boolean
         -  remote-diagnostic-code keyword
         -  remote-discriminator number
         -  remote-minimum-receive-interval number
         -  remote-multiplier number
         -  remote-session-state keyword
         -  session-state keyword
         -  statistics
            x  clear
      +  remote-address (ipv4-address | ipv6-address)
      +  required-minimum-receive number
-  network-instance name string
   -  peer local-discriminator number
      -  active-receive-interval number
      -  active-transmit-interval number
      -  async
         -  last-clear string
         -  last-packet-received string
         -  last-packet-transmitted string
         -  received-errored-packets number
         -  received-packets number
         -  transmitted-packets number
         -  up-transitions number
      -  failure-transitions number
      -  ipv4-unnumbered-interface string
      -  ipv6-link-local-interface string
      -  last-failure-time string
      -  last-state-transition string
      -  local-address (ipv4-address | ipv6-address)
      -  local-diagnostic-code keyword
      -  oper-state keyword
      -  remote-address (ipv4-address | ipv6-address)
```


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```
      -  remote-control-plane-independent boolean
      -  remote-diagnostic-code keyword
      -  remote-discriminator number
      -  remote-minimum-receive-interval number
      -  remote-multiplier number
      -  remote-session-state keyword
      -  session-state keyword
      -  sr-policy-endpoint (ipv4-address | ipv6-address)
      -  subscribed-protocols string
      -  te-policy-candidate-path-name string
      -  te-policy-color number
      -  te-policy-name string
      -  te-policy-protocol-origin keyword
      -  te-policy-segment-list-index number
      -  te-policy-segment-list-lsp-index number
      -  te-policy-type keyword
-   peer local-discriminator number
    x  clear
    -  statistics
       x  clear
+   subinterface id string
    +  admin-state keyword
    +  desired-minimum-transmit-interval number
    +  detection-multiplier number
    +  max-hop-count number
    +  minimum-echo-receive-interval number
    +  required-minimum-receive number
-   total-bfd-sessions number
-   total-unmatched-bfd-packets number
```


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4.1 bfd Descriptions

bfd

Description	Context to configure BFD parameters and report BFD sessions state
Context	bfd
Tree	bfd
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

micro-bfd-sessions

Description	Enter the micro-bfd-sessions context Context to configure micro-BFD session parameters and report sessions state
Context	bfd micro-bfd-sessions
Tree	micro-bfd-sessions
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-interface name *reference*

Description	List of interface references to associate a micro-BFD session config and state
Context	bfd micro-bfd-sessions lag-interface name *reference*
Tree	lag-interface

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	Reference ID for associated lag interface Example: lag1 (Reference Interface lag1).
Context	bfd micro-bfd-sessions lag-interface name *reference*
Reference	interface name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable BFD for this subinterface
Context	bfd micro-bfd-sessions lag-interface name *reference* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

desired-minimum-transmit-interval *number*

Description The minimum interval between transmission of BFD control packets

This value is advertised to the peer, however the actual interval used is specified by taking the maximum of desired-minimum-transmit-interval and the value of the remote required-minimum-receive interval value. This value is specified as an integer number of microseconds. [Note: On vSRL instances this must be set to a value of 1000000 or greater]

Context bfd micro-bfd-sessions lag-interface name *reference* desired-minimum-transmit-interval *number*

Tree desired-minimum-transmit-interval

Range 10000 to 100000000

Default 1000000

Units microseconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detection-multiplier *number*

Description The number of packets that must be missed to declare this session as down

The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

Context bfd micro-bfd-sessions lag-interface name *reference* detection-multiplier *number*

Tree detection-multiplier

Range 3 to 20

Default 3

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description IP address to be used as source address in BFD packets

Context bfd micro-bfd-sessions lag-interface name *reference* local-address *(ipv4-address | ipv6-address)*

Tree local-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-interface name *string*

Description List of interface references to associate a micro-BFD session config and state

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string*

Tree member-interface

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Reference ID for associated interface Example: ethernet-2/1 (Reference Interface ethernet-2/1).

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Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-receive-interval *number*

Description The receive interval currently being used by this BFD session

This is the amount of time the BFD state machine expects between receiving BFD messages from the remote peer.

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* active-receive-interval *number*

Tree active-receive-interval

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-transmit-interval *number*

Description The transmit interval currently being used by this BFD session

This is the amount of time the local BFD agent will wait between the sending of BFD messages to the remote peer

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* active-transmit-interval *number*

Tree active-transmit-interval

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

async

Description Container for async BFD operational state parameters

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async

Tree async

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the session counters were cleared.

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-packet-received *string*

Description Timestamp for when the last BFD packet was received for this session

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Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async last-packet-received *string*
Tree	last-packet-received
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-packet-transmitted *string*

Description	Timestamp for when the last BFD packet was transmitted for this session
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async last-packet-transmitted *string*
Tree	last-packet-transmitted
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-errored-packets *number*

Description	Counter for the number of BFD packets received with BFD level errors
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async received-errored-packets *number*
Tree	received-errored-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-packets *number*

Description	Counter for the number of BFD packets received for this session
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async received-packets *number*
Tree	received-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Counter for the number of BFD packets transmitted for this session
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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up-transitions *number*

Description Counter for the number of UP transitions for this BFD session

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* async up-transitions *number*

Tree up-transitions

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Execute the clear action

Clear the associated micro-BFD sessions

Clearing a micro-BFD sessions causes the associated sessions to transition to a Down state

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* clear

Tree clear

Configurable False

Note This is an action command

Platforms Supported on all platforms except 7215 IXS-A1

failure-transitions *number*

Description The number of times that the BFD session has transitioned out of the up state

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* failure-transitions *number*

Tree failure-transitions

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failure-time *string*

Description	Timestamp of the last BFD session transition out of the up state to down state
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* last-failure-time *string*
Tree	last-failure-time
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-state-transition *string*

Description	Timestamp of the last micro-BFD session transition from any state to any state Time of the session in the current state can be calculated from this value.
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* last-state-transition *string*
Tree	last-state-transition
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-diagnostic-code *keyword*

Description The local BFD diagnostic code indicating the most recent reason for failure of this BFD session

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* local-diagnostic-code *keyword*

Tree local-diagnostic-code

Options

- NO_DIAGNOSTIC

  No diagnostic code was specified, or the session has not changed state

- DETECTION_TIMEOUT

  The control detection time expired: no BFD packet was received within the required period

- ECHO_FAILED

  The BFD echo function failed - echo packets have not been received for the required period of time

- NEIGHBOR_SIGNALED_DOWN

  The neighbor signaled session down

- FORWARDING_RESET

  The forwarding plane in the local system was reset

  The remote system cannot rely on the forwarding state of the device specifying this error code.

- PATH_DOWN

  Signalling outside of BFD specified that the path underlying this session has failed

- CONCATENATED_PATH_DOWN

  A segment on the path between source and destination has failed

  When a BFD session runs over a series of path segments, this error code indicates that a subsequent path segment (i.e., one in the transmit path between the source and destination of the session) has failed.

- ADMIN_DOWN

  The BFD session has been administratively disabled by the peer

- REVERSE_CONCATENATED_PATH_DOWN

  A segment on the reverse path between destination and source has failed

  In the case that a BFD session is running over a series of path segments, this error code indicates that a path segment on the reverse path (i.e., in the transmit direction from the destination to the source of the session) has failed.

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	BFD session local discriminator
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* local-discriminator *number*
Tree	local-discriminator
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-control-plane-independent *boolean*

Description	Indicates if the remote neighbor has set the control independent flag
Context	bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-control-plane-independent *boolean*
Tree	remote-control-plane-independent
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-diagnostic-code *keyword*

Description The remote BFD diagnostic code indicating the remote system's reason for failure of the BFD session

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-diagnostic-code *keyword*

Tree remote-diagnostic-code

Options

- NO_DIAGNOSTIC

  No diagnostic code was specified, or the session has not changed state

- DETECTION_TIMEOUT

  The control detection time expired: no BFD packet was received within the required period

- ECHO_FAILED

  The BFD echo function failed - echo packets have not been received for the required period of time

- NEIGHBOR_SIGNALED_DOWN

  The neighbor signaled session down

- FORWARDING_RESET

  The forwarding plane in the local system was reset

  The remote system cannot rely on the forwarding state of the device specifying this error code.

- PATH_DOWN

  Signalling outside of BFD specified that the path underlying this session has failed

- CONCATENATED_PATH_DOWN

  A segment on the path between source and destination has failed

  When a BFD session runs over a series of path segments, this error code indicates that a subsequent path segment (i.e., one in the transmit path between the source and destination of the session) has failed.

- ADMIN_DOWN

  The BFD session has been administratively disabled by the peer

- REVERSE_CONCATENATED_PATH_DOWN

  A segment on the reverse path between destination and source has failed

  In the case that a BFD session is running over a series of path segments, this error code indicates that a path segment on the reverse path (i.e., in the transmit direction from the destination to the source of the session) has failed.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-discriminator *number*

Description A unique identifier used by the remote system to identify this BFD session

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-discriminator *number*

Tree remote-discriminator

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-minimum-receive-interval *number*

Description The value of the minimum receive interval that was specified by the peer

This value references the value in the most recent BFD control packet received from the peer.

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-minimum-receive-interval *number*

Tree remote-minimum-receive-interval

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-multiplier *number*

Description The current number of packets that must be missed to declare the session as down

The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-multiplier *number*

Tree remote-multiplier

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-session-state *keyword*

Description The reported state of the BFD session according to the remote system

This state reflects the last state reported in a BFD control packet.

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* remote-session-state *keyword*

Tree remote-session-state

Options

- ADMIN_DOWN

  The BFD session is administratively disabled
- DOWN

  The BFD session is perceived to be down by the system
- INIT

  The BFD session is perceived to be initialising by the system
- UP

  The BFD session is perceived to be up by the system

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-state *keyword*

Description The state of the BFD session perceived by the local system

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* session-state *keyword*

Tree session-state

Options

- ADMIN_DOWN

  The BFD session is administratively disabled
- DOWN

  The BFD session is perceived to be down by the system
- INIT

  The BFD session is perceived to be initialising by the system
- UP

  The BFD session is perceived to be up by the system

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Execute the clear action

Clear the BFD statistics associated with the micro-BFD sessions

Context bfd micro-bfd-sessions lag-interface name *reference* member-interface name *string* statistics clear

Tree clear

Configurable False

Note This is an action command

Platforms Supported on all platforms except 7215 IXS-A1

remote-address *(ipv4-address | ipv6-address)*

Description The remote IP address for the far-end of the BFD session

This must be the same IP version as the local-address.

Context bfd micro-bfd-sessions lag-interface name *reference* remote-address *(ipv4-address | ipv6-address)*

Tree remote-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

required-minimum-receive *number*

Description The minimum interval between received BFD control packets that this system should support

This value is advertised to the remote peer to indicate the maximum frequency (i.e., minimum inter-packet interval) between BFD control packets that is acceptable to the local system. This value is specified as an integer number of microseconds. [Note: On vSRL instances this must be set to a value of 1000000 or greater]

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Context	bfd micro-bfd-sessions lag-interface name *reference* required-minimum-receive *number*
Tree	required-minimum-receive
Range	10000 to 100000000
Default	1000000
Units	microseconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *string*

Description	Network-instance context for the BFD session
Context	bfd network-instance name *string*
Tree	network-instance
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Unique name identifying the network instance
Context	bfd network-instance name *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer local-discriminator *number*

Description	BFD session state related to this peer
Context	bfd network-instance name *string* peer local-discriminator *number*
Tree	peer
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	BFD session local discriminator
Context	bfd network-instance name *string* peer local-discriminator *number*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-receive-interval *number*

Description	Receive interval currently being used by this BFD session This is the amount of time the BFD state machine expects between receiving BFD messages from the remote peer.
Context	bfd network-instance name *string* peer local-discriminator *number* active-receive-interval *number*
Tree	active-receive-interval
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220

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IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-transmit-interval *number*

Description Transmit interval currently being used by this BFD session

This is the amount of time the local BFD agent will wait between the sending of BFD messages to the remote peer.

Context bfd network-instance name *string* peer local-discriminator *number* active-transmit-interval *number*

Tree active-transmit-interval

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

async

Description Container for async BFD operational state parameters

Context bfd network-instance name *string* peer local-discriminator *number* async

Tree async

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the session counters were cleared

Context bfd network-instance name *string* peer local-discriminator *number* async last-clear *string*

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Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-packet-received *string*

Description	Timestamp for when the last BFD packet was received for this session
Context	bfd network-instance name *string* peer local-discriminator *number* async last-packet-received *string*
Tree	last-packet-received
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-packet-transmitted *string*

Description	Timestamp for when the last BFD packet was transmitted for this session
Context	bfd network-instance name *string* peer local-discriminator *number* async last-packet-transmitted *string*
Tree	last-packet-transmitted
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-errored-packets *number*

Description	Counter for the number of BFD packets received with BFD level errors
Context	bfd network-instance name *string* peer local-discriminator *number* async received-errored-packets *number*
Tree	received-errored-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-packets *number*

Description	Counter for the number of BFD packets received for this session
Context	bfd network-instance name *string* peer local-discriminator *number* async received-packets *number*
Tree	received-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Counter for the number of BFD packets transmitted for this session
Context	bfd network-instance name *string* peer local-discriminator *number* async transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-transitions *number*

Description	Counter for the number of UP transitions for this BFD session
Context	bfd network-instance name *string* peer local-discriminator *number* async up-transitions *number*
Tree	up-transitions
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failure-transitions *number*

Description	Number of times that the BFD session transitioned out of the up state
Context	bfd network-instance name *string* peer local-discriminator *number* failure-transitions *number*
Tree	failure-transitions
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4-unnumbered-interface *string*

Description	For IPv4 unnumbered sessions only, indicates the local interface with which the session is associated
Context	bfd network-instance name *string* peer local-discriminator *number* ipv4-unnumbered-interface *string*
Tree	ipv4-unnumbered-interface
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-link-local-interface *string*

Description	For IPv6 link local sessions only, indicates the local interface with which the session is associated
Context	bfd network-instance name *string* peer local-discriminator *number* ipv6-link-local-interface *string*
Tree	ipv6-link-local-interface
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failure-time *string*

Description	Timestamp of the last BFD session transition out of the up state to down state
Context	bfd network-instance name *string* peer local-discriminator *number* last-failure-time *string*
Tree	last-failure-time
String Length	20 to 32
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-state-transition *string*

Description	Timestamp of the last BFD session transition from any state to any state Time of the session in the current state can be calculated from this value.
Context	bfd network-instance name *string* peer local-discriminator *number* last-state-transition *string*
Tree	last-state-transition
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description	IP address to be used as source address in BFD packets
Context	bfd network-instance name *string* peer local-discriminator *number* local-address *(ipv4-address | ipv6-address)*
Tree	local-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local-diagnostic-code *keyword*

Description Local BFD diagnostic code indicating the most recent reason for failure of this BFD session

Context bfd network-instance name *string* peer local-discriminator *number* local-diagnostic-code *keyword*

Tree local-diagnostic-code

Options

- NO_DIAGNOSTIC

  No diagnostic code was specified or the session has not changed state

- DETECTION_TIMEOUT

  Control detection time expired: no BFD packet was received within the required period

- ECHO_FAILED

  BFD echo function failed and echo packets were not received for the required period of time

- NEIGHBOR_SIGNALED_DOWN

  Neighbor signaled session down

- FORWARDING_RESET

  Forwarding plane in the local system was reset

  The remote system cannot rely on the forwarding state of the device specifying this error code.

- PATH_DOWN

  Signalling outside of BFD specifies that the path underlying this session has failed

- CONCATENATED_PATH_DOWN

  Segment on the path between source and destination has failed

  When a BFD session runs over a series of path segments, this error code indicates that a subsequent path segment (i.e., one in the transmit path between the source and destination of the session) has failed.

- ADMIN_DOWN

  BFD session has been administratively disabled by the peer

- REVERSE_CONCATENATED_PATH_DOWN

  Segment on the reverse path between destination and source has failed

  In the case that a BFD session is running over a series of path segments, this error code indicates that a path segment on the reverse path (i.e., in the transmit direction from the destination to the source of the session) has failed.

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details the operational state of the session

Context bfd network-instance name *string* peer local-discriminator *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *(ipv4-address | ipv6-address)*

Description Remote IP address for the far-end of the BFD session

This must be the same IP version as the local-address.

Context bfd network-instance name *string* peer local-discriminator *number* remote-address *(ipv4-address | ipv6-address)*

Tree remote-address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-control-plane-independent *boolean*

Description Indicates if the remote neighbor has set the control independent flag

Context bfd network-instance name *string* peer local-discriminator *number* remote-control-plane-independent *boolean*

Tree remote-control-plane-independent

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-diagnostic-code *keyword*

Description Remote BFD diagnostic code indicating the remote system's reason for failure of the BFD session

Context bfd network-instance name *string* peer local-discriminator *number* remote-diagnostic-code *keyword*

Tree remote-diagnostic-code

Options

- NO_DIAGNOSTIC

  No diagnostic code was specified or the session has not changed state

- DETECTION_TIMEOUT

  Control detection time expired: no BFD packet was received within the required period

- ECHO_FAILED

  BFD echo function failed and echo packets were not received for the required period of time

- NEIGHBOR_SIGNALED_DOWN

  Neighbor signaled session down

- FORWARDING_RESET

  Forwarding plane in the local system was reset

  The remote system cannot rely on the forwarding state of the device specifying this error code.

- PATH_DOWN

  Signalling outside of BFD specifies that the path underlying this session has failed

- CONCATENATED_PATH_DOWN

  Segment on the path between source and destination has failed

  When a BFD session runs over a series of path segments, this error code indicates that a subsequent path segment (i.e., one in the transmit path between the source and destination of the session) has failed.

- ADMIN_DOWN

  BFD session has been administratively disabled by the peer

- REVERSE_CONCATENATED_PATH_DOWN

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Segment on the reverse path between destination and source has failed

In the case that a BFD session is running over a series of path segments, this error code indicates that a path segment on the reverse path (i.e., in the transmit direction from the destination to the source of the session) has failed.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-discriminator *number*

Description Unique identifier used by the remote system to identify this BFD session

Context bfd network-instance name *string* peer local-discriminator *number* remote-discriminator *number*

Tree remote-discriminator

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-minimum-receive-interval *number*

Description Value of the minimum receive interval that was specified by the peer

This value references the value in the most recent BFD control packet received from the peer.

Context bfd network-instance name *string* peer local-discriminator *number* remote-minimum-receive-interval *number*

Tree remote-minimum-receive-interval

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp,

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7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-multiplier *number*

Description

Current number of packets that must be missed to declare the session as down

The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

Context

bfd network-instance name *string* peer local-discriminator *number* remote-multiplier *number*

Tree

remote-multiplier

Configurable

False

Platforms

7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-session-state *keyword*

Description

Reported state of the BFD session according to the remote system

This state reflects the last state reported in a BFD control packet.

Context

bfd network-instance name *string* peer local-discriminator *number* remote-session-state *keyword*

Tree

remote-session-state

Options

- ADMIN_DOWN

  BFD session is administratively disabled
- DOWN

  BFD session is perceived to be down by the system
- INIT

  BFD session is perceived to be initialising by the system
- UP

  BFD session is perceived to be up by the system

Configurable

False

Platforms

7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220

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IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-state *keyword*

Description State of the BFD session perceived by the local system

Context bfd network-instance name *string* peer local-discriminator *number* session-state *keyword*

Tree session-state

Options

- ADMIN_DOWN

  BFD session is administratively disabled
- DOWN

  BFD session is perceived to be down by the system
- INIT

  BFD session is perceived to be initialising by the system
- UP

  BFD session is perceived to be up by the system

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-policy-endpoint *(ipv4-address | ipv6-address)*

Description SR-Policy endpoint IP address associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* sr-policy-endpoint *(ipv4-address | ipv6-address)*

Tree sr-policy-endpoint

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subscribed-protocols *string*

Description Indicates the set of protocols that currently use this BFD session for liveliness detection

Context bfd network-instance name *string* peer local-discriminator *number* subscribed-protocols *string*

Tree subscribed-protocols

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-candidate-path-name *string*

Description Colored TE-Policy candidate path name

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-candidate-path-name *string*

Tree te-policy-candidate-path-name

String Length 1 to 255

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-color *number*

Description Color associated with the (colored) TE-Policy

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-color *number*

Tree te-policy-color

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Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-name *string*

Description Name of the TE-Policy associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-name *string*

Tree te-policy-name

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-protocol-origin *keyword*

Description Indicates the protocol type used to originate the TE-Policy associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-protocol-origin *keyword*

Tree te-policy-protocol-origin

Options

- LOCAL

  Associated TE-Policy originated from local configuration

- PCEP

  Associated TE-Policy from a PCEP controller

- BGP

  Associated TE-Policy from BGP peer

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220

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IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-segment-list-index *number*

Description Indicates the segment list index of the TE-Policy associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-segment-list-index *number*

Tree te-policy-segment-list-index

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-segment-list-lsp-index *number*

Description Indicates the lsp index for the segement list of the TE-Policy associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-segment-list-lsp-index *number*

Tree te-policy-segment-list-lsp-index

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy-type *keyword*

Description Type of TE-Policy associated with this seamless BFD session

Context bfd network-instance name *string* peer local-discriminator *number* te-policy-type *keyword*

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Tree	te-policy-type
Options	• sr-mpls-colored • sr-mpls-uncolored
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer local-discriminator *number*

Description	The list of local-discriminators associated with BFD
Context	bfd peer local-discriminator *number*
Tree	peer
Configurable	False
Platforms	Supported on all platforms except 7215 IXS-A1

local-discriminator *number*

Description	BFD session local discriminator
Context	bfd peer local-discriminator *number*
Configurable	False
Platforms	Supported on all platforms except 7215 IXS-A1

clear

Description	Execute the clear action Clear the associated BFD sessions Clearing a BFD sessions causes the associated BFD sessions ot transition to a Down state
Context	bfd peer local-discriminator *number* clear
Tree	clear
Configurable	False
Note	This is an action command

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Platforms	Supported on all platforms except 7215 IXS-A1

statistics

Description	Enter the statistics context
Context	bfd peer local-discriminator *number* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms except 7215 IXS-A1

clear

Description	Execute the clear action Clear the BFD statistics associated with the BFD sessions
Context	bfd peer local-discriminator *number* statistics clear
Tree	clear
Configurable	False
Note	This is an action command
Platforms	Supported on all platforms except 7215 IXS-A1

subinterface id *string*

Description	List of subinterface references to associating BFD config and state
Context	bfd subinterface id *string*
Tree	subinterface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description	Reference ID for associated subinterface Example: ethernet-2/1.100 (Reference Interface ethernet-2/1, subinterface 100).

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Context	bfd subinterface id *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable BFD for this subinterface
Context	bfd subinterface id *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

desired-minimum-transmit-interval *number*

Description	Minimum interval between transmission of BFD control packets This value is advertised to the peer, however the actual interval used is specified by taking the maximum of desired-minimum-transmit-interval and the value of the remote required-minimum-receive interval value. This value is specified as an integer number of microseconds. [Note: On vSRL instances this must be set to a value of 1000000 or greater]
Context	bfd subinterface id *string* desired-minimum-transmit-interval *number*
Tree	desired-minimum-transmit-interval
Range	10000 to 100000000
Default	1000000

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Units	microseconds
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detection-multiplier *number*

Description	Number of packets that must be missed to declare this session as down The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.
Context	bfd subinterface id *string* detection-multiplier *number*
Tree	detection-multiplier
Range	3 to 20
Default	3
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-hop-count *number*

Description	TTL to be used in the BFD IP header for multihop BFD
Context	bfd subinterface id *string* max-hop-count *number*
Tree	max-hop-count
Range	2 to 255
Default	255
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-echo-receive-interval *number*

Description Minimum interval between echo packets the local node can receive

Implicitly enabled echo mode on the associated interface.

Context bfd subinterface id *string* minimum-echo-receive-interval *number*

Tree minimum-echo-receive-interval

Range 0 | 250000 to 100000000

Default 0

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

required-minimum-receive *number*

Description Minimum interval between received BFD control packets that this system should support

This value is advertised to the remote peer to indicate the maximum frequency (i.e., minimum inter-packet interval) between BFD control packets that is acceptable to the local system. This value is specified as an integer number of microseconds. [Note: On vSRL instances this must be set to a value of 1000000 or greater]

Context bfd subinterface id *string* required-minimum-receive *number*

Tree required-minimum-receive

Range 10000 to 100000000

Default 1000000

Units microseconds

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-bfd-sessions *number*

Description	Counter for the total number of BFD sessions
Context	bfd total-bfd-sessions *number*
Tree	total-bfd-sessions
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-unmatched-bfd-packets *number*

Description	Counter for the total number of BFD packets received not matching a BFD session
Context	bfd total-unmatched-bfd-packets *number*
Tree	total-unmatched-bfd-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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5 interface

```
interface name string
-  adapter
   -  model-number string
   -  type keyword
   -  vendor-lot-number string
   -  vendor-manufacture-date string
   -  vendor-oui string
   -  vendor-part-number string
   -  vendor-serial-number string
+  admin-state keyword
+  breakout-mode
   +  breakout-port-speed keyword
   +  num-breakout-ports keyword
   +  num-physical-channels number
+  congestion-signaling
   +  action keyword
   +  locator number
   -  remote-csig-indicator boolean
+  description string
+  dynamic-subinterfaces
   -  active-vlans (number | keyword)
   +  retention-refresh keyword
   +  retention-timer number
   +  vlan-range
      +  single-tagged
         +  low-vlan-id range-low-vlan-id number
            +  high-vlan-id number
      +  untagged
+  ethernet
   +  aggregate-id reference
   +  auto-negotiate boolean
   +  dac-link-training boolean
   +  dot1x
      +  tunnel
         +  double-tagged boolean
         -  oper-rule keyword
         +  single-tagged boolean
         +  tunnel-all boolean
         +  untagged boolean
   +  duplex-mode keyword
   +  exponential-port-dampening
      +  admin-state keyword
      -  current-penalties number
      +  half-life number
      -  max-penalties number
      +  max-suppress-time number
      -  oper-state keyword
      +  reuse-threshold number
      +  suppress-threshold number
   +  flow-control
      +  receive boolean
   +  forward-error-correction
      +  fec-option keyword
      -  operational-host-if-fec keyword
      -  statistics
         -  host-if-fec-router
```


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```
            x  clear
            -  corrected-frame-error-count number
            -  frame-error-count number
            -  histogram
               -  bin0 number
               -  bin1 number
               -  bin10 number
               -  bin11 number
               -  bin12 number
               -  bin13 number
               -  bin14 number
               -  bin15 number
               -  bin2 number
               -  bin3 number
               -  bin4 number
               -  bin5 number
               -  bin6 number
               -  bin7 number
               -  bin8 number
               -  bin9 number
            -  last-clear string
            -  post-fec-ber
               -  avg decimal-number
               -  instant decimal-number
               -  max decimal-number
               -  max-time string
               -  min decimal-number
               -  min-time string
            -  pre-fec-ber
               -  avg decimal-number
               -  instant decimal-number
               -  max decimal-number
               -  max-time string
               -  min decimal-number
               -  min-time string
            -  status keyword
         -  host-if-fec-transceiver
            -  frame-error-count
               -  avg number
               -  instant number
               -  max number
               -  min number
            -  pre-fec-ber
               -  avg decimal-number
               -  instant decimal-number
               -  max decimal-number
               -  min decimal-number
   +  forwarding-viable boolean
   +  hold-time
      +  down number
      -  down-expires string
      +  up number
      -  up-expires string
   -  hw-mac-address string
   +  l2cp-transparency
      +  efm-oam
         -  oper-rule keyword
         +  tunnel boolean
      +  elmi
         -  oper-rule keyword
         +  tunnel boolean
      +  esmc
         -  oper-rule keyword
         +  tunnel boolean
```


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```
      +  lacp
         -  oper-rule keyword
         +  tunnel boolean
      +  lldp
         -  oper-rule keyword
         +  tunnel boolean
      +  ptp
         -  oper-rule keyword
         +  tunnel boolean
      +  tunnel-all-l2cp boolean
      +  xstp
         -  oper-rule keyword
         +  tunnel boolean
   +  lacp-port-priority number
   +  link-loss-forwarding boolean
   +  mac-address string
   -  physical-medium keyword
   +  port-speed keyword
   +  ptp-asymmetry number
   +  ptp-timestamping
      +  disable-ip-timestamping boolean
   +  reload-delay number
   -  reload-delay-expires string
   +  standby-signaling keyword
   -  statistics
      -  in-1024b-to-1518b-frames number
      -  in-128b-to-255b-frames number
      -  in-1519b-or-longer-frames number
      -  in-256b-to-511b-frames number
      -  in-512b-to-1023b-frames number
      -  in-64b-frames number
      -  in-65b-to-127b-frames number
      -  in-crc-error-frames number
      -  in-fragment-frames number
      -  in-jabber-frames number
      -  in-mac-pause-frames number
      -  in-oversize-frames number
      -  in-undersize-frames number
      -  last-clear string
      -  out-1024b-to-1518b-frames number
      -  out-128b-to-255b-frames number
      -  out-1519b-or-longer-frames number
      -  out-256b-to-511b-frames number
      -  out-512b-to-1023b-frames number
      -  out-64b-frames number
      -  out-65b-to-127b-frames number
      -  out-mac-pause-frames number
   +  storm-control
      +  broadcast-rate number
      +  multicast-rate number
      -  operational-broadcast-rate number
      -  operational-multicast-rate number
      -  operational-unknown-unicast-rate number
      +  rising-threshold-action keyword
      +  units keyword
      +  unknown-unicast-rate number
   +  synce
      +  ssm
         +  admin-state keyword
-  forwarding-complex reference
-  forwarding-mode keyword
-  ifindex number
+  lag
   +  lacp
```


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```
      +  admin-key number
      +  interval keyword
      +  lacp-mode keyword
      +  system-id-mac string
      +  system-priority number
   +  lacp-fallback-mode keyword
   +  lacp-fallback-timeout number
   -  lag-speed number
   +  lag-type keyword
   -  member name reference
      -  lacp
         -  activity keyword
         -  aggregatable boolean
         -  collecting boolean
         -  distributing boolean
         -  lacp-partner-port-priority number
         -  lacp-port-priority number
         -  oper-key number
         -  partner-id string
         -  partner-key number
         -  partner-port-num number
         -  port-num number
         -  statistics
            -  lacp-errors number
            -  lacp-in-pkts number
            -  lacp-out-pkts number
            -  lacp-rx-errors number
            -  lacp-tx-errors number
            -  lacp-unknown-errors number
         -  synchronization keyword
         -  system-id string
         -  timeout keyword
      -  last-change string
      -  microbfd-enabled boolean
      -  oper-down-reason keyword
      -  oper-state keyword
   +  member-speed keyword
   +  min-links number
-  last-change string
-  linecard reference
+  linux
   +  device-name string
+  load-balancing
   +  hash-profile reference
   -  hash-seed number
   -  last-dynamic-load-balancing-quality-metrics number
+  mtu number
+  num-physical-channels number
-  oper-down-reason keyword
-  oper-state keyword
+  p4rt
   +  id number
   -  parent-id number
-  packet-link-qualification
   -  result id string
      -  end-time string
      -  expected-rate number
      -  oper-state keyword
      -  packets-dropped number
      -  packets-error number
      -  packets-received number
      -  packets-sent number
      -  qualification-rate number
      -  start-time string
```


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```
      -  status keyword
      -  status-message string
-  pci
   -  address string
   -  device-id string
   -  device-name string
   -  socket-cpus number
   -  socket-id number
   -  subsystem
      -  device-id string
      -  device-name string
      -  vendor-id string
      -  vendor-name string
   -  vendor-id string
   -  vendor-name string
-  phy-group-members string
-  physical-channel reference
-  resource
+  sflow
   +  admin-state keyword
   +  egress-sampling-rate number
   +  ingress-sampling-rate number
-  statistics
   -  carrier-transitions number
   -  in-broadcast-packets number
   -  in-discarded-packets number
   -  in-error-packets number
   -  in-fcs-error-packets number
   -  in-multicast-packets number
   -  in-octets number
   -  in-packets number
   -  in-unicast-packets number
   -  interface-transitions number
   -  last-clear string
   -  link-transitions number
   -  out-broadcast-packets number
   -  out-discarded-packets number
   -  out-error-packets number
   -  out-mirror-octets number
   -  out-mirror-packets number
   -  out-multicast-packets number
   -  out-octets number
   -  out-packets number
   -  out-unicast-packets number
+  subinterface index number
   +  admin-state keyword
   +  anycast-gw
      +  anycast-gw-mac string
      -  anycast-gw-mac-origin keyword
      +  virtual-router-id number
   +  bridge-table
      +  dhcpv4-snoop
         +  admin-state keyword
         -  oper-down-reason keyword
         -  oper-state keyword
         +  option keyword
         -  statistics
            -  client-packets-discarded number
            -  client-packets-received number
            -  client-packets-snooped number
            -  server-packets-discarded number
            -  server-packets-received number
            -  server-packets-snooped number
         +  trace-options
```


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```
      +  trace keyword
   +  dhcpv6-snoop
      +  admin-state keyword
      -  oper-down-reason keyword
      -  oper-state keyword
      +  option keyword
      -  statistics
         -  client-packets-discarded number
         -  client-packets-received number
         -  client-packets-snooped number
         -  server-packets-discarded number
         -  server-packets-received number
         -  server-packets-snooped number
      +  trace-options
         +  trace keyword
   +  discard-unknown-src-mac boolean
   +  mac-duplication
      +  action keyword
      -  duplicate-entries
         -  mac address string
            -  dup-detect-time string
            -  hold-down-time-remaining (keyword | number)
   +  mac-learning
      +  admin-state keyword
      +  aging
         +  admin-state keyword
      -  learnt-entries
         -  mac address string
            -  aging (number | keyword)
            -  last-update string
   +  mac-limit
      +  maximum-entries number
      +  warning-threshold-pct number
   -  mac-table
      -  mac address string
         -  failed-slots number
         -  last-update string
         -  not-programmed-reason keyword
         -  type keyword
   +  managed-stp
      -  forward-transitions number
      -  mgmt-stp-interface string
      -  mgmt-stp-msti number
      -  mgmt-stp-name string
      -  port-state identityref
   -  statistics
      -  active-entries number
      -  failed-entries number
      -  mac-type type keyword
         -  active-entries number
         -  failed-entries number
         -  total-entries number
      -  total-entries number
   +  stp
      +  admin-state keyword
      +  bpdu-guard boolean
      -  bpdu-guard-error boolean
      -  bpdu-guard-recovery-time-expires (number | date-and-time-delta)
      -  designated-bridge string
      -  designated-port number
      -  designated-port-num number
      -  designated-port-priority number
      +  edge-port identityref
      -  forward-transitions number
```


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```
        +  guard keyword
        +  link-type keyword
        -  oper-bpdu-encap keyword
        -  oper-edge identityref
        -  oper-port-priority number
        -  oper-protocol keyword
        -  oper-state keyword
        +  path-cost number
        -  port-num number
        +  port-number number
        -  port-role identityref
        -  port-state identityref
        +  priority number
        -  statistics
           -  bad-bpdus-received number
           -  cfg-bpdus-received number
           -  cfg-bpdus-transmitted number
           -  mst-bpdus-received number
           -  mst-bpdus-transmitted number
           -  rst-bpdus-received number
           -  rst-bpdus-transmitted number
           -  tc-bit-bpdus-received number
           -  tc-bit-bpdus-transmitted number
           -  tcn-bpdus-received number
           -  tcn-bpdus-transmitted number
  +  collect-detailed-stats boolean
  +  collect-irb-stats boolean
  +  description string
  -  ethernet-segment-association
     -  designated-forwarder boolean
     -  es-managed boolean
     -  ethernet-segment string
  +  evpn-interface-ful-unnumbered
  -  ifindex number
  +  ip-mtu number
  +  ipv4
     +  address ip-prefix string
        +  anycast-gw boolean
        +  internal-tags
           +  set-tag-set reference
        -  origin keyword
        +  primary
        -  status keyword
        +  vrrp
           +  vrrp-group virtual-router-id number
              +  accept-mode boolean
              +  admin-state keyword
              +  advertise-interval number
              +  authentication
                 +  keychain reference
              -  current-master (ipv4-address | ipv6-address)
              +  init-delay number
              +  interface-tracking
                 +  track-interface interface reference
                    +  priority-decrement number
              -  last-transition string
              +  master-inherit-interval boolean
              -  oper-down-reason keyword
              -  oper-interval number
              -  oper-state keyword
              -  operational-priority number
              -  owner boolean
              +  preempt boolean
              +  preempt-delay number
```


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```
            + priority number
            - state identityref
            + statistics
               - advertisements-discarded-address-mismatch number
               - advertisements-discarded-authfail number
               - advertisements-discarded-authtype-mismatch number
               - advertisements-discarded-interval number
               - advertisements-discarded-length number
               - advertisements-discarded-total number
               - advertisements-discarded-ttl number
               - advertisements-discarded-version-mismatch number
               - advertisements-interval-error number
               - advertisements-received number
               - advertisements-sent number
               - priority-zero-packets-received number
               - priority-zero-packets-sent number
            + version number
            + virtual-address (ipv4-address | ipv6-address)
            - virtual-mac string
      + admin-state keyword
      + allow-directed-broadcast boolean
      + arp
         + debug keyword
         + duplicate-address-detection boolean
         + evpn
            + advertise route-type keyword
               + interface-less-routing
                  + bgp-evpn-instance reference
               + internal-tags
                  + set-tag-set reference
            + local-es
               + entry-type keyword
               + retention-timer number
         + host-route
            + populate route-type keyword
               + datapath-programming boolean
               + internal-tags
                  + set-tag-set reference
         + learn-unsolicited boolean
         + neighbor ipv4-address string
            - datapath-programming
               - last-failed-complexes string
               - status keyword
            - expiration-time string
            - group-based-policy-tag number
            + link-layer-address string
            - origin keyword
         + proxy-arp boolean
         + timeout number
         + virtual-ipv4-discovery
            + address ipv4-address string
               + allowed-macs string
               + probe-bridged-subinterfaces string
               + probe-interval number
               - statistics
                  - out-probe-packets number
            - statistics
               - out-total-probe-packets number
      + dhcp-client
         + trace-options
            + trace keyword
      + dhcp-relay
         + admin-state keyword
         + circuit-id-l2-interface boolean
```


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```
      -  dns-resolution
         -  server domain string
            -  last-update string
            -  resolved-ip-address (ipv4-address | ipv6-address)
      +  gi-address string
      +  network-instance reference
      -  oper-down-reason keyword
      -  oper-state keyword
      +  option keyword
      +  server (ipv4-address | domain-name)
      -  statistics
         -  client-packets-discarded number
         -  client-packets-received number
         -  client-packets-relayed number
         -  server-packets-discarded number
         -  server-packets-received number
         -  server-packets-relayed number
      +  trace-options
         +  trace keyword
      +  trusted-mode boolean
      +  use-gi-addr-as-src-ip-addr boolean
   +  dhcp-server
      +  admin-state keyword
      -  oper-state keyword
   -  statistics
      -  in-discarded-packets number
      -  in-error-packets number
      -  in-forwarded-octets number
      -  in-forwarded-packets number
      -  in-matched-ra-packets number
      -  in-octets number
      -  in-packets number
      -  in-terminated-octets number
      -  in-terminated-packets number
      -  last-clear string
      -  out-discarded-packets number
      -  out-error-packets number
      -  out-forwarded-octets number
      -  out-forwarded-packets number
      -  out-octets number
      -  out-originated-octets number
      -  out-originated-packets number
      -  out-packets number
   +  unnumbered
      -  address string
      +  admin-state keyword
      +  interface string
      -  unavailable-address-reason keyword
+  ipv6
   +  address ip-prefix string
      +  anycast-gw boolean
      +  internal-tags
         +  set-tag-set reference
      -  origin keyword
      +  primary
      -  status keyword
      +  type keyword
      +  vrrp
         +  vrrp-group virtual-router-id number
            +  accept-mode boolean
            +  admin-state keyword
            +  advertise-interval number
            +  authentication
               +  keychain reference
```


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```
            -  current-master (ipv4-address | ipv6-address)
            +  init-delay number
            +  interface-tracking
               +  track-interface interface reference
                  +  priority-decrement number
            -  last-transition string
            +  master-inherit-interval boolean
            -  oper-down-reason keyword
            -  oper-interval number
            -  oper-state keyword
            -  operational-priority number
            -  owner boolean
            +  preempt boolean
            +  preempt-delay number
            +  priority number
            -  state identityref
            +  statistics
               -  advertisements-discarded-address-mismatch number
               -  advertisements-discarded-authfail number
               -  advertisements-discarded-authtype-mismatch number
               -  advertisements-discarded-interval number
               -  advertisements-discarded-length number
               -  advertisements-discarded-total number
               -  advertisements-discarded-ttl number
               -  advertisements-discarded-version-mismatch number
               -  advertisements-interval-error number
               -  advertisements-received number
               -  advertisements-sent number
               -  priority-zero-packets-received number
               -  priority-zero-packets-sent number
            +  version number
            +  virtual-address string
            -  virtual-link-local-address string
            -  virtual-mac string
      +  admin-state keyword
      +  dhcp-client
         +  trace-options
            +  trace keyword
      +  dhcp-relay
         +  admin-state keyword
         -  dns-resolution
            -  server domain string
               -  last-update string
               -  resolved-ip-address (ipv4-address | ipv6-address)
         +  interface-id-l2-interface boolean
         +  network-instance reference
         -  oper-down-reason keyword
         -  oper-state keyword
         +  option keyword
         +  server (ipv6-address | domain-name)
         +  source-address string
         -  statistics
            -  client-packets-discarded number
            -  client-packets-received number
            -  client-packets-relayed number
            -  server-packets-discarded number
            -  server-packets-received number
            -  server-packets-relayed number
         +  trace-options
            +  trace keyword
      +  dhcpv6-server
         +  admin-state keyword
         -  oper-state keyword
      +  neighbor-discovery
```


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```
      + debug keyword
      + duplicate-address-detection boolean
      + evpn
         + advertise route-type keyword
            + interface-less-routing
               + bgp-evpn-instance reference
            + internal-tags
               + set-tag-set reference
         + local-es
            + entry-type keyword
            + retention-timer number
      + host-route
         + populate route-type keyword
            + datapath-programming boolean
            + internal-tags
               + set-tag-set reference
      + learn-unsolicited keyword
      + limit
         + log-only boolean
         + max-entries number
         + warning-threshold-pct number
      + neighbor ipv6-address string
         - current-state keyword
         - datapath-programming
            - last-failed-complexes string
            - status keyword
         - group-based-policy-tag number
         - is-router boolean
         + link-layer-address string
         - next-state-time string
         - origin keyword
      + proxy-nd boolean
      + reachable-time number
      + stale-time number
      + virtual-ipv6-discovery
         + address ipv6-address string
            + allowed-macs string
            + probe-bridged-subinterfaces string
            + probe-interval number
            - statistics
               - out-probe-packets number
         - statistics
            - out-total-probe-packets number
   + router-advertisement
      + debug keyword
      + router-role
         + admin-state keyword
         + current-hop-limit number
         + dns-options
            + rdnss-lifetime number
            + server string
         + ip-mtu number
         + managed-configuration-flag boolean
         + max-advertisement-interval number
         + min-advertisement-interval number
         + other-configuration-flag boolean
         + prefix ipv6-prefix string
            + autonomous-flag boolean
            + on-link-flag boolean
            + preferred-lifetime (keyword | number)
            + valid-lifetime (keyword | number)
         + reachable-time number
         + retransmit-time number
         + router-lifetime number
```


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```
      -  statistics
         -  in-discarded-packets number
         -  in-error-packets number
         -  in-forwarded-octets number
         -  in-forwarded-packets number
         -  in-matched-ra-packets number
         -  in-octets number
         -  in-packets number
         -  in-terminated-octets number
         -  in-terminated-packets number
         -  last-clear string
         -  out-discarded-packets number
         -  out-error-packets number
         -  out-forwarded-octets number
         -  out-forwarded-packets number
         -  out-octets number
         -  out-originated-octets number
         -  out-originated-packets number
         -  out-packets number
   +  l2-mtu number
   -  last-change string
   +  local-mirror-destination
      +  admin-state keyword
      -  oper-state keyword
   -  mpls
      -  statistics
         -  in-discarded-packets number
         -  in-error-packets number
         -  in-forwarded-octets number
         -  in-forwarded-packets number
         -  in-matched-ra-packets number
         -  in-octets number
         -  in-packets number
         -  in-terminated-octets number
         -  in-terminated-packets number
         -  last-clear string
         -  out-discarded-packets number
         -  out-error-packets number
         -  out-forwarded-octets number
         -  out-forwarded-packets number
         -  out-octets number
         -  out-originated-octets number
         -  out-originated-packets number
         -  out-packets number
   +  mpls-mtu number
   -  name string
   -  oper-down-reason keyword
   -  oper-state keyword
   +  ra-guard
      +  policy reference
      +  vlan-list vlan-id number
   -  statistics
      -  in-discarded-packets number
      -  in-error-packets number
      -  in-forwarded-octets number
      -  in-forwarded-packets number
      -  in-matched-ra-packets number
      -  in-octets number
      -  in-packets number
      -  in-terminated-octets number
      -  in-terminated-packets number
      -  last-clear string
      -  out-discarded-packets number
      -  out-error-packets number
```


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```
      -  out-forwarded-octets number
      -  out-forwarded-packets number
      -  out-octets number
      -  out-originated-octets number
      -  out-originated-packets number
      -  out-packets number
   +  type identityref
   +  unidirectional-link-delay
      -  last-reported-dynamic-delay (number | keyword)
      +  static-delay (number | keyword)
   +  uuid string
   +  vlan
      +  egress-mapping
         +  inner-tpid identityref
         +  inner-vlan-id number
         +  outer-tpid identityref
         +  outer-vlan-id number
         +  vlan-stack-action keyword
      +  encap
         +  double-tagged
            +  inner-vlan-id (number | keyword)
            +  outer-vlan-id (number | keyword)
         +  single-tagged
            +  vlan-id (number | keyword)
         +  single-tagged-range
            +  low-vlan-id range-low-vlan-id number
               +  high-vlan-id number
         +  untagged
      +  ingress-mapping
         +  inner-tpid identityref
         +  inner-vlan-id number
         +  outer-tpid identityref
         +  outer-vlan-id number
         +  vlan-stack-action keyword
      +  loopback-mode keyword
      +  swap-src-dst-mac boolean
      +  vlan-discovery
         +  type keyword
+  swap-src-dst-mac boolean
+  tpid identityref
-  traffic-rate
   -  in-bps number
   -  out-bps number
+  transceiver
   -  application-descriptors application-number number
      -  host-if-id number
      -  host-if-name string
      -  host-lane-assignment-options keyword
      -  host-lane-count number
      -  media-if-id number
      -  media-if-name string
      -  media-lane-assignment-options keyword
      -  media-lane-count number
   -  cdb-capabilities
      -  hitless-restart boolean
   -  channel index number
      -  wavelength decimal-number
   -  clei-code string
   -  cmis-revision string
   -  connector-type keyword
   -  date-code string
   +  ddm-events boolean
   -  ethernet-pmd string
   -  fault-condition boolean
```


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```
- firmware
   - install-state
      - install-status keyword
      - last-known-failure string
      - transfer-end-time string
      - transfer-percent-complete number
      - transfer-start-time string
- firmware-version string
- form-factor keyword
+ functional-type identityref
- healthz
   - last-unhealthy string
   - status keyword
   - unhealthy-count number
- inactive-firmware-version string
- link-length-information string
- loopback-capabilities
   - host-side-input boolean
   - host-side-output boolean
   - host-side-per-lane boolean
   - media-side-input boolean
   - media-side-output boolean
   - media-side-per-lane boolean
   - simultaneous-host-and-media boolean
- oper-down-reason keyword
- oper-state keyword
+ optical-channel index number
   - fine-tuning
      - range number
      - resolution number
   + frequency number
   - laser-tunability keyword
   - logical-channel reference
   - maximum-frequency number
   - minimum-frequency number
   - module-state keyword
   - oper-frequency number
   + operational-mode keyword
   - rx-electrical-snr-x-polarization decimal-number
   - rx-electrical-snr-y-polarization decimal-number
   + rx-los-reaction keyword
   + rx-los-thresh decimal-number
   - rx-optical-snr-x-polarization decimal-number
   - rx-optical-snr-y-polarization decimal-number
   - rx-quality-margin decimal-number
   - statistics
      - received
         - bit-error-rate
            - average decimal-number
            - current decimal-number
            - maximum decimal-number
            - minimum decimal-number
         - chromatic-dispersion
            - average number
            - current number
            - maximum number
            - minimum number
         - differential-group-delay
            - average decimal-number
            - current decimal-number
            - maximum decimal-number
            - minimum decimal-number
         - electrical-signal-to-noise-ratio
            - average decimal-number
```


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```
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  frequency-offset
            -  average number
            -  current number
            -  maximum number
            -  minimum number
         -  media-frame-error-count
            -  average number
            -  current number
            -  maximum number
            -  minimum number
         -  optical-signal-to-noise-ratio
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  polarization-dependent-loss
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  power
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  quality
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  state-of-polarization-rate-of-change
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
         -  total-power
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
      -  transmitted
         -  laser-bias-current
            -  current decimal-number
         -  power
            -  average decimal-number
            -  current decimal-number
            -  maximum decimal-number
            -  minimum decimal-number
   -  supported-grids keyword
   +  target-power decimal-number
   -  transmit-power
      -  maximum decimal-number
      -  minimum decimal-number
+  optical-line-system
   -  digital-diagnostic-monitoring
      -  egress-amplifier-gain
         -  high-alarm-condition boolean
         -  high-alarm-threshold decimal-number
         -  high-warning-condition boolean
         -  high-warning-threshold decimal-number
         -  latest-value decimal-number
```


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```
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - egress-amplifier-input-power
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - egress-amplifier-output-power
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - egress-pump-temperature
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - ingress-amplifier-gain
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - ingress-amplifier-input-power
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
         - ingress-amplifier-output-power
            - high-alarm-condition boolean
            - high-alarm-threshold decimal-number
            - high-warning-condition boolean
            - high-warning-threshold decimal-number
            - latest-value decimal-number
            - low-alarm-condition boolean
            - low-alarm-threshold decimal-number
            - low-warning-condition boolean
            - low-warning-threshold decimal-number
```


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```
         -  ingress-pump-temperature
            -  high-alarm-condition boolean
            -  high-alarm-threshold decimal-number
            -  high-warning-condition boolean
            -  high-warning-threshold decimal-number
            -  latest-value decimal-number
            -  low-alarm-condition boolean
            -  low-alarm-threshold decimal-number
            -  low-warning-condition boolean
            -  low-warning-threshold decimal-number
      +  egress-amplifier-gain decimal-number
   x  reset
      o  info string
   -  serial-number string
   -  supported-operational-mode keyword
   -  temperature
      -  high-alarm-condition boolean
      -  high-alarm-threshold number
      -  high-warning-condition boolean
      -  high-warning-threshold number
      -  latest-value number
      -  low-alarm-condition boolean
      -  low-alarm-threshold number
      -  low-warning-condition boolean
      -  low-warning-threshold number
      -  maximum number
      -  maximum-time string
   +  tx-laser boolean
   -  vendor string
   -  vendor-lot-number string
   -  vendor-oui string
   -  vendor-part-number string
   -  vendor-revision string
   -  voltage
      -  high-alarm-condition boolean
      -  high-alarm-threshold decimal-number
      -  high-warning-condition boolean
      -  high-warning-threshold decimal-number
      -  latest-value decimal-number
      -  low-alarm-condition boolean
      -  low-alarm-threshold decimal-number
      -  low-warning-condition boolean
      -  low-warning-threshold decimal-number
   -  wavelength decimal-number
+  uuid string
+  vlan-tagging boolean
```


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5.1 interface Descriptions

interface name *string*

Description The list of named interfaces on the device

Context interface name *string*

Tree interface

Configurable True

Platforms Supported on all platforms

name *string*

Description The name of the interface

Valid options are: irb<N>, N=0..255 lif-e1-<N>, N=1..34 enp<bus>s<dev>f<fn>, bus=0..255, dev=0..31, fn=0..7 vhn-<vhn_name> lag<N>, N=1..1000 [note1] lo<N>, N=0..255 mgmt0 mgmt0-standby mgmtA mgmtB ethernet-<slot>/<port> ethernet-<slot>/<connector>/<port> ethernet-<slot>/m<mda>/<port> ethernet-<slot>/m<mda>/<connector>/<port> system0 sync0-a sync0-b

<vhn_name>=vhost interface name <slot>=slot number {1,2,3,..} <mda>= mda id {1,2,3,..} <connector>=connector id {1,2,3,..} <port>=port id {1,2,3,..}

[note1] The maximum number of LAGs per platform is as follows: D1: 32 (N must be 1..32) D2-D3: 128 (N must be 1..1000) D4-D5: 64 (N must be 1..64) H2-H3: 127 (N must be 1..127) H4-32D: 127 (N must be 1..127) H4: 255 (N must be 1..255) H5-32D: 127 (N must be 1..127) H5-64D: 127 (N must be 1..127) H5-64O: 127 (N must be 1..127) H6-64: 127 (N must be 1..127) IXR: 512 (N must be 1..512) vSRL: 16 (N must be 1..16) A1: 10 (N must be 1..10) IXR-X1b: 512 (N must be 1..512) IXR-X3b: 512 (N must be 1..512) IXR-X4: 256 (N must be 1..256) IXR-X4-OSFP: 256 (N must be 1..256) SSE-T8164: 127 (N must be 1..127)

Context interface name *string*

String Length 3 to 22

Configurable True

Platforms Supported on all platforms

adapter

Description Enter the adapter context

State for adapters

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Context	interface name *string* adapter
Tree	adapter
Configurable	False
Platforms	Supported on all platforms

model-number *string*

Description	Model information for the adapter This is the information as read from the EEPROM of the part. The string is expected to contain printable ASCII characters, but unprintable ASCII characters read from the EEPROM are not filtered out.
Context	interface name *string* adapter model-number *string*
Tree	model-number
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	Type of adapter for the port
Context	interface name *string* adapter type *keyword*
Tree	type
Options	• unknown • qsfp28-to-sfp+/sfp28 • cfp-to-qsfp28
Configurable	False
Platforms	Supported on all platforms

vendor-lot-number *string*

Description	Vendor's lot number for the adapter This is the information as read from the EEPROM of the part.
Context	interface name *string* adapter vendor-lot-number *string*
Tree	vendor-lot-number
Configurable	False
Platforms	Supported on all platforms

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vendor-manufacture-date *string*

Description	Vendor's date code. This is the information as read from the EEPROM of the part.
Context	interface name *string* adapter vendor-manufacture-date *string*
Tree	vendor-manufacture-date
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

vendor-oui *string*

Description	Vendor's OUI which contains the IEEE company identifier for the vendor This is the information as read from the EEPROM of the part. A value of all zero indicates that the vendor OUI is unspecified.
Context	interface name *string* adapter vendor-oui *string*
Tree	vendor-oui
Configurable	False
Platforms	Supported on all platforms

vendor-part-number *string*

Description	Vendor's part number or product name of the adapter This is the information as read from the EEPROM of the part. An empty string indicates the vendor part number is unspecified. The string is expected to contain printable ASCII characters, but unprintable ASCII characters read from the EEPROM are not filtered out.
Context	interface name *string* adapter vendor-part-number *string*
Tree	vendor-part-number
Configurable	False
Platforms	Supported on all platforms

vendor-serial-number *string*

Description	Vendor's serial number of the adapter This is the information as read from the EEPROM of the part. An empty string indicates the vendor serial number is unspecified. The string is

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expected to contain printable ASCII characters, but unprintable ASCII characters read from the EEPROM are not filtered out.

Context interface name *string* adapter vendor-serial-number *string*

Tree vendor-serial-number

Configurable False

Platforms Supported on all platforms

admin-state *keyword*

Description The configured, desired state of the interface

For digital coherent optic transceivers, when the interface associated to the transceiver is set to disable, the transceiver is placed into low power mode, if that function is supported.

Context interface name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

breakout-mode

Description Configuration of breakout options.

7220 D2L ports 49-55: 4x10G and 4x25G 7220 D3 ports 3-33: 4x10G and 4x25G 7220 D3L ports 1-31: 2x50G, 4x10G, and 4x25G 7220 H3 ports 3-34: 4x10G, 4x25G, 2x100G/4x100G, and 2x200G 7220 H4 ports 1-64: 4x10G, 4x25G, 4x100G, and 2x200G 7220 H4-32D ports 1-32: 4x10G, 4x25G, 2x100G/4x100G and 2x200G 7220 H5-32D ports 1-32: 2x100G, 4x100G, 8x100G, 2x200G, 4x200G and 2x400G (Note 6) 7220 H5-64D ports 1-64: 2x100G, 4x100G, 8x100G, 2x200G, 4x200G and 2x400G (Note 6) 7220 H5-64O ports 1-64: 8x100G, 4x200G and 2x400G (Note 6) 7220 H5-64O-512 ports 1-64: 8x100G, 4x200G and 2x400G 7220 H6-64 ports 1-64: 4x100G, 8x100G, 2x200G, 4x200G, 8x200G, 2x400G, 4x400G, and 2x800G 7220 D4 ports 29-32: 4x100G, 4x25G, and 4x10G 7220 D4 ports 9, 23-27: 4x25G and 4x10G 7220 D5 ports 1-32: 4x10G, 4x25G, 2x100G/4x100G, 2x50G, No breakouts 7250 IXR-6e/10e 60p QSFP28 IMM ports: 9,12,15,18,21,24,26,27,29,30,32,33,35,36,38,39,41,42,45,48: 4x25G and 4x10G (Note 2) 7250 IXR-6e/10e 36p QSFPDD IMM all ports: 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 4x25G, and 4x10G 7250 IXR-6e/10e/18e 36p QSFP112-DD IMM all ports: 2x400G, 8x100G, 4x100G,

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3x100G (Note 1), 2x100G, 1x100G (Note 1), 4x25G 7250 IXR-6e/10e/18e 36p OSFP IMM all ports: 2x400G, 4x200G, 8x100G, 1x400G (Note 1) 7250 IXR-X1b QSFP28 ports 1-24: 4x25G, and 4x10G (Note 4) 7250 IXR-X1b QSFPDD ports 25-30: 2x200G, 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 4x25G, and 4x10G 7250 IXR-X1b QSFPDD ports 31-36: 2x200G, 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 8x50G, 4x25G, and 4x10G 7250 IXR-X3b QSFPDD ports 1-6,13-24,31-36: 2x200G, 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 8x10G, 8x50G, 4x25G, and 4x10G 7250 IXR-X3b QSFPDD ports 7-12,25-30: 2x200G, 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 4x25G, and 4x10G 7250 IXR-X4 QSFP112-DD all ports: 2x400G, 1x400G (Note 1), 8x100G, 4x100G, 3x100G (Note 1), 2x100G, 1x100G (Note 1), 8x50G, 4x25G 7250 IXR-X4-OSFP all ports: 2x400G, 4x200G, 8x100G, 1x400G

Note 1: Only supported for Digital Coherent Optic transceivers

Note 2: For the following port groupings only the higher numbered port supports breakout-mode. If the higher numbered port is to be configured for breakout-mode, then the lower numbered port should not be configured. If both ports are configured, then the lower numbered port takes precedence and the higher numbered port shall be operationally down with reason unsupported-breakout-port. Groupings are (8,9), (11,12), (14,15), (17,18), (20,21), (23,24), (44, 45), (47,48).

Note 3: Breakout and 40G is only supported on odd numbered ports. For the QSFP28 four port groupings [1-4], [5-8], [9-12], [13-16], [21-24], [25-28], and [29-32] if either of the odd numbered ports within a group is configured for 40G, 4x10G, or 4x25G, then the other odd numbered port in the same group may only be configured if it is configured for one of 40G, 4x10G, or 4x25G (can differ between the odd ports) and neither of the two even numbered ports within the same group can be configured.

Note 4: For the QSFP28 ports, the following port groups exist [n, n+1, n+2, n +3] for n = 1, 5, 9, 13, 17, 21. Breakout for 4x25G or 4x10G is only supported on ports n+1 and n+3. When initially configuring a port with a breakout configuration or port speed that does not already exist on another configured port within the same group, then a link flap and traffic hit may occur on other ports within the same group. When the breakout configuration or port speed is changed for a port in a group, then a link flap and traffic hit may occur on other ports within the same group. If port n+1 within the group is configured for breakout, then port n cannot be configured. In addition if port n+1 is configured for breakout and port n+3 is configured without breakout, then port n+2 may only be configured with the same speed as port n+3. If port n+3 within the group is configured for breakout, then port n+2 cannot be configured. In addition if port n+3 is configured for breakout and port n+1 is configured without breakout, then port n may only be configured with the same speed as port n+1.

Note 5: QSFP28 port 2 is disabled if port 1 is configured with breakout-mode or port-speed 40G; QSFP28 port 4 is disabled if port 3 is configured with breakout-mode or port-speed 40G.

Note 6: On IXR-H5-32D, IXR-H5-64D, and IXR-H5-64O, any port may use num-breakout-ports 2, 4, or 8 for any supported breakout mode listed above, as long as the total number of breakout ports in a port pair does not exceed

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10. The paired ports are: IXR-H5-64D and IXR-H5-64O: (1,34), (2,33), (3,36), (4,35), (5,38), (6,37), (7,40), (8,39), (9,42), (10,41), (11,44), (12,43), (13,46), (14,45), (15,48), (16,47), (17,50), (18,49), (19,52), (20,51), (21,54), (22,53), (23,56), (24,55), (25,58), (26,57), (27,60), (28,59), (29,62), (30,61), (31,64), (32,63) IXR-H5-32D: (1,2), (3,4), (5,6), ..., (31,32)

Port Groups and auto-configuration of port speed: Manually configured breakout-mode takes precedence over the auto-configured port-speed. This means that configuring a port within a port-group can have a side effect to take down an operational port that had its speed set based on the auto configuration feature. If there is risk of mixing transceiver types within a port group, then it is recommended to always manually configure the ports

Context interface name *string* breakout-mode

Tree breakout-mode

Configurable True

Platforms 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

breakout-port-speed *keyword*

Description The speed of each breakout port

Context interface name *string* breakout-mode breakout-port-speed *keyword*

Tree breakout-port-speed

Options

- 1G
- 10G
- 25G
- 50G
- 100G
- 200G
- 400G
- 800G

Configurable True

Platforms 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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num-breakout-ports *keyword*

Description The number of breakout ports supported by this connector

Context interface name *string* breakout-mode num-breakout-ports *keyword*

Tree num-breakout-ports

Options

- 1
- 2
- 3
- 4
- 8

Configurable True

Platforms 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-physical-channels *number*

Description Sets the number of lanes or physical channels assigned to the set of interfaces within this breakout group

This leaf can be used to distinguish between transceivers that provide the same breakout-configuration but using different PMAs. For example, a transceiver that provides a breakout of 4 ports of 100G using 4 x 100GAUI2 would set this leaf to 8 but a transceiver using 4 x 100GAUI-1 would have this leaf set to 4. An 800G transceiver that provides a breakout of 1 port of 400G using 1x400GAUI-8 would set this leaf to 8 or if using 1x400GAUI-4 would set this leaf to 4.

If not set, then the default shall be as follows: 4 is used for 4x10G, 2x50G, 4x25G, 1x100G 6 is used for 3x100G (digital coherent optics) 8 is used for 2x100G, 8x50G, 1x400G, 4x100G, 2x400G

If num-physical-channels has been configured at the interface level, it cannot be configured within the breakout group.

Context interface name *string* breakout-mode num-physical-channels *number*

Tree num-physical-channels

Range 1 to 8

Configurable True

Platforms 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250

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IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

congestion-signaling

Description Enter the congestion-signaling context

Configuration for congestion signaling parameters.

Context interface name *string* congestion-signaling

Tree congestion-signaling

Configurable True

Platforms 7220 IXR-H6-64

action *keyword*

Description The specific action to be performed on the congestion signaling.

Context interface name *string* congestion-signaling action *keyword*

Tree action

Default update

Options

- update

  Indicates an action to update the congestion signaling configuration.
- terminate

  Indicates an action to terminate the congestion signaling.

Configurable True

Platforms 7220 IXR-H6-64

locator *number*

Description Interface specific loactor to be used when updating CSIG metric OnIt used in CSig wide tag type is used

Context interface name *string* congestion-signaling locator *number*

Tree locator

Range 1 to 32767

Configurable True

Platforms 7220 IXR-H6-64

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remote-csig-indicator *boolean*

Description	Indicates if the remote neighbor has signaled support for congestion signaling.
Context	interface name *string* congestion-signaling remote-csig-indicator *boolean*
Tree	remote-csig-indicator
Configurable	False
Platforms	7220 IXR-H6-64

description *string*

Description	A user-configured description of the interface
Context	interface name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

dynamic-subinterfaces

Description	Dynamic subinterface configuration and state
Context	interface name *string* dynamic-subinterfaces
Tree	dynamic-subinterfaces
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-vlans *(number | keyword)*

Description	The active VLAN identifiers for the creation of dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces active-vlans *(number | keyword)*
Tree	active-vlans
Range	1 to 4094
Options	• untagged

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-refresh *keyword*

Description	Controls whether ingress or egress subinterface counter changes refresh the retention timer for active VLANs When ingress-and-egress-stats is configured, any change to ingress or egress subinterface counters refreshes the retention timer. When ingress-stats is configured, only ingress subinterface counter changes refresh the retention timer; egress BUM traffic does not prevent VLAN aging.
Context	interface name *string* dynamic-subinterfaces retention-refresh *keyword*
Tree	retention-refresh
Default	ingress-and-egress-stats
Options	• ingress-stats Refresh the retention timer only when ingress subinterface counters change Egress traffic on the dynamic subinterface, including BUM frames from other hosts in the same bridge domain, does not keep the VLAN in active-vlans. • ingress-and-egress-stats Refresh the retention timer when ingress or egress subinterface counters change This behavior supports silent hosts that receive little ingress traffic but still have egress activity.
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-timer *number*

Description	The inactivity period after which the configuration for the corresponding VLAN is removed
Context	interface name *string* dynamic-subinterfaces retention-timer *number*
Tree	retention-timer

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Range	1 to 65535
Default	240
Units	minutes
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan-range

Description	Enter the vlan-range context Specifies a range of VLAN identifiers for dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces vlan-range
Tree	vlan-range
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

single-tagged

Description	Match single-tagged packets for the creation of dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces vlan-range single-tagged
Tree	single-tagged
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-vlan-id range-low-vlan-id *number*

Description	Enter the low-vlan-id list instance
Context	interface name *string* dynamic-subinterfaces vlan-range single-tagged low-vlan-id range-low-vlan-id *number*
Tree	low-vlan-id
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1
Min. Elements	1

range-low-vlan-id *number*

Description	The low-value VLAN identifier in a range for single-tagged packets The range is matched inclusively.
Context	interface name *string* dynamic-subinterfaces vlan-range single-tagged low-vlan-id range-low-vlan-id *number*
Range	1 to 4094
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-vlan-id *number*

Description	The high-value VLAN identifier in a range for single-tagged packets The range is matched inclusively.
Context	interface name *string* dynamic-subinterfaces vlan-range single-tagged low-vlan-id range-low-vlan-id *number* high-vlan-id *number*
Tree	high-vlan-id
Range	1 to 4094
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

untagged

Description	Match untagged packets for the creation of dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces vlan-range untagged
Tree	untagged

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet

Description	Enter the ethernet context
Context	interface name *string* ethernet
Tree	ethernet
Configurable	True
Platforms	Supported on all platforms

aggregate-id *reference*

Description	lag interface with which this interface is associated
Context	interface name *string* ethernet aggregate-id *reference*
Tree	aggregate-id
Reference	interface name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-negotiate *boolean*

Description	When set to true the interface uses auto-negotiation for speed, duplex and flow-control settings. When set to false, the transmission parameters are specified manually.
Context	interface name *string* ethernet auto-negotiate *boolean*
Tree	auto-negotiate

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1

dac-link-training *boolean*

Description	If the system detects that the transceiver is connected to a DAC cable then a true setting enables link training for better link stability. The link training setting must be the same at both ends of the DAC cable or else the link may not come up.
Context	interface name *string* ethernet dac-link-training *boolean*
Tree	dac-link-training
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

dot1x

Description	Enclosing container for dot1x
Context	interface name *string* ethernet dot1x
Tree	dot1x
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel

Description	Enter the tunnel context Enclosing container for dot1x tunneling
Context	interface name *string* ethernet dot1x tunnel
Tree	tunnel
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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double-tagged *boolean*

Description	tunnel double tagged dot1x PDUs through the interface
Context	interface name *string* ethernet dot1x tunnel double-tagged *boolean*
Tree	double-tagged
Default	true
Configurable	True
Platforms	Supported on 7220 IXR, 7250 IXR platforms

oper-rule *keyword*

Description	The operational state of the TCAM rule applied to ingress dot1x frames
Context	interface name *string* ethernet dot1x tunnel oper-rule *keyword*
Tree	oper-rule
Options	• trap-to-cpu-untagged • drop-tagged-and-untagged • tunnel-tagged-and-untagged • tunnel-tagged-drop-untagged • tunnel-tagged-trap-to-cpu-untagged • trap-to-cpu-tagged-and-untagged
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

single-tagged *boolean*

Description	tunnel single tagged dot1x PDUs through the interface
Context	interface name *string* ethernet dot1x tunnel single-tagged *boolean*
Tree	single-tagged
Default	true
Configurable	True
Platforms	Supported on 7220 IXR, 7250 IXR platforms

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tunnel-all *boolean*

Description tunnel all dot1x PDUs through the interface

tunnel untagged and tagged dot1x PDUs.

Context interface name *string* ethernet dot1x tunnel tunnel-all *boolean*

Tree tunnel-all

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

untagged *boolean*

Description tunnel untagged dot1x PDUs through the interface

Context interface name *string* ethernet dot1x tunnel untagged *boolean*

Tree untagged

Default false

Configurable True

Platforms Supported on 7220 IXR, 7250 IXR platforms

duplex-mode *keyword*

Description When auto-negotiate is true, this sets the duplex mode that will be advertised to the peer. When auto-negotiate is false, this directly sets the duplex mode of the interface.

Context interface name *string* ethernet duplex-mode *keyword*

Tree duplex-mode

Options

- full
- half

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1

exponential-port-dampening

Description Enter the exponential-port-dampening context

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Exponential port dampening parameters

Context interface name *string* ethernet exponential-port-dampening

Tree exponential-port-dampening

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of exponential port dampening

Context interface name *string* ethernet exponential-port-dampening admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-penalties *number*

Description Indicates the accumulated penalties applied to the port

Penalties are accumulated on every port down event except a system restart.

Context interface name *string* ethernet exponential-port-dampening current-penalties *number*

Tree current-penalties

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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half-life *number*

Description	Half-life decay time
Context	interface name *string* ethernet exponential-port-dampening half-life *number*
Tree	half-life
Range	1 to 2000
Default	5
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-penalties *number*

Description	Indicates the maximum possible value of the accumulated penalties against the port
Context	interface name *string* ethernet exponential-port-dampening max-penalties *number*
Tree	max-penalties
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-suppress-time *number*

Description	Maximum suppression time
Context	interface name *string* ethernet exponential-port-dampening max-suppress-time *number*
Tree	max-suppress-time
Range	1 to 43200
Default	20
Units	seconds
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of exponential port dampening The oper-state is 'active' when port-up is suppressed because current-penalties exceeds suppress-threshold, or remains suppressed until current-penalties falls below reuse-threshold. The oper-state is 'idle' when dampening is not suppressing port-up.
Context	interface name *string* ethernet exponential-port-dampening oper-state *keyword*
Tree	oper-state
Options	• active • idle
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-threshold *number*

Description	Threshold which port-up state is no longer suppressed
Context	interface name *string* ethernet exponential-port-dampening reuse-threshold *number*
Tree	reuse-threshold
Range	1 to 20000
Default	1000
Units	penalties
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppress-threshold *number*

Description	Threshold at which the port-up state is suppressed
Context	interface name *string* ethernet exponential-port-dampening suppress-threshold *number*
Tree	suppress-threshold
Range	1 to 20000
Default	2000
Units	penalties
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-control

Description	Enter the flow-control context
Context	interface name *string* ethernet flow-control
Tree	flow-control
Configurable	True
Platforms	Supported on all platforms

receive *boolean*

Description	When this is true PAUSE frames received on this interface are accepted and processed, and, if auto-negotiation is enabled it also causes the capability to receive PAUSE frames to be signaled to the peer (applicable only to ports 1-48 of the 7220 IXR-D1, ports 1-48 of the 7215 IXS-A1 and to mgmt0 and mgmt0-standby ports). When this is false PAUSE frames received on this interface are ignored, and, if auto-negotiation is enabled it causes the capability to receive PAUSE frames to be signaled to the peer as non-support (applicable only to ports 1-48 of the 7220 IXR-D1, ports 1-48 of the 7215 IXS-A1 and to mgmt0 and mgmt0-standby ports)
Context	interface name *string* ethernet flow-control receive *boolean*
Tree	receive
Configurable	True
Platforms	Supported on all platforms

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forward-error-correction

Description Enter the forward-error-correction context

Context interface name *string* ethernet forward-error-correction

Tree forward-error-correction

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-option *keyword*

Description The forward error correction algorithm requested for the interface

The same FEC algorithm must be used at both ends of a link. This leaf should be only be configured for 25G and 100G interfaces; it can cause the port to remain operationally down for other interface speeds. 1G, 10G, and 40G interfaces do not use FEC 50G and interfaces with speeds higher than 100G have well defined FEC settings in IEEE 802.3 that must be used and so configuration is not needed.

For 100G interfaces, if the specific transceiver inserted uses PAM4 encoding, then the system shall always enable clause 91 RS(544,514) FEC and so this leaf should be left unconfigured. For 100G interfaces, if the specific transceiver inserted uses NRZ encoding, then it may require rs-528 to be enabled. This is dependent on the specific PMD and also whether the installed transceiver includes the FEC functionality inside the transceiver. Refer to Nokia support for the correct setting for the specific transceiver.

If this leaf is configured and the setting is incompatible with the installed transceiver, the interface shall be kept down with a reason of unsupported-fec.

25G interfaces support disabled, base-r, and rs-528. The FEC requirement for a 25G interface depends on the cable type. A CA-N DAC cable has a loss specification that requires no FEC. A CA-S DAC cable requires FEC, rs-528 recommended. A CA-L DAC cable requires the stronger rs-528 FEC.

Context interface name *string* ethernet forward-error-correction fec-option *keyword*

Tree fec-option

Options

- disabled
- base-r

  An early form of FEC used with 25G interfaces

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Defined in clause 74 of IEEE 802.3. This FEC has poor performance compared to clause 108 (rs-528). base-r should only be used if the far end doesn't support rs-528

This type of FEC is only supported for 25G interfaces.

- rs-528

  Reed-Solomon RS(528,514) code FEC

  For 25G interfaces, this is IEEE 802.3 Clause 108 using RS(528,514) For 100G interfaces, this is IEEE 802.3 Clause 91 using RS(528,514)

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-host-if-fec *keyword*

Description The forward error correction algorithm in use to use at the host interface and potentially the media interface

The same FEC algorithm must be used at both ends of a link.

Context interface name *string* ethernet forward-error-correction operational-host-if-fec *keyword*

Tree operational-host-if-fec

Options

- disabled

  No FEC is active on the host interface

- cl74-baser

  An early form of FEC used with 25G interfaces

  Not very strong performance - cl108-rs528 is preferred. cl74-baser should only be used if the far end doesn't support cl108-rs528

- cl108-rs528

  IEEE 802.3 Clause 108 using RS(528,514)

  IEEE defines this as mandatory for 25G interfaces

- cl91-rs528

  IEEE 802.3 Clause 91 using RS(528,514)

  IEEE defines this as an option for 100G interfaces using NRZ

- cl91-rs544

  IEEE 802.3 Clause 91 using RS(544,514)

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IEEE defines this as mandatory for 100G interfaces using PAM4

- cl119-rs544

  IEEE 802.3 Clause 119 using RS(544,514)

  IEEE defines this as mandatory for 200G and 400G interfaces

- cl134-rs544

  IEEE 802.3 Clause 134 using RS(544,514)

  IEEE defines this as mandatory for 50G interfaces

- cl172-rs544

  IEEE 802.3 Clause 172 using RS(544,514)

  IEEE defines this as mandatory for 800G interfaces

- cl175-rs544

  IEEE 802.3 Clause 175 using RS(544,514)

  IEEE defines this as mandatory for 1.6T interfaces

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for the fec statistics

Context interface name *string* ethernet forward-error-correction statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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host-if-fec-router

Description Enter the host-if-fec-router context

Statistics for fec as reported at the router for the host interface; received from the transceiver

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router

Tree host-if-fec-router

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Execute the clear action

Clear interface ethernet forward-error-correction statistics

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router clear

Tree clear

Configurable False

Note This is an action command

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

corrected-frame-error-count *number*

Description The number of corrected FEC blocks/frames

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router corrected-frame-error-count *number*

Tree corrected-frame-error-count

Default 0

Configurable False

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-error-count *number*

Description	The number of uncorrectable FEC blocks/frames
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router frame-error-count *number*
Tree	frame-error-count
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

histogram

Description	Enter the histogram context Symbol errors per RSFEC codeword
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram
Tree	histogram
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin0 *number*

Description	The number of FEC codewords containing 0 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin0 *number*
Tree	bin0

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Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin1 *number*

Description	The number of FEC codewords containing 1 symbol error
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin1 *number*
Tree	bin1
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin10 *number*

Description	The number of FEC codewords containing 10 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin10 *number*
Tree	bin10
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin11 *number*

Description	The number of FEC codewords containing 11 symbol errors

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Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin11 *number*
Tree	bin11
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin12 *number*

Description	The number of FEC codewords containing 12 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin12 *number*
Tree	bin12
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin13 *number*

Description	The number of FEC codewords containing 13 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin13 *number*
Tree	bin13
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bin14 *number*

Description	The number of FEC codewords containing 14 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin14 *number*
Tree	bin14
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin15 *number*

Description	The number of FEC codewords containing 15 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin15 *number*
Tree	bin15
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin2 *number*

Description	The number of FEC codewords containing 2 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin2 *number*
Tree	bin2
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-

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gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin3 *number*

Description The number of FEC codewords containing 3 symbol errors

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin3 *number*

Tree bin3

Default 0

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin4 *number*

Description The number of FEC codewords containing 4 symbol errors

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin4 *number*

Tree bin4

Default 0

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin5 *number*

Description The number of FEC codewords containing 5 symbol errors

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin5 *number*

Tree bin5

Default 0

Configurable False

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin6 *number*

Description	The number of FEC codewords containing 6 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin6 *number*
Tree	bin6
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin7 *number*

Description	The number of FEC blocks containing 7 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin7 *number*
Tree	bin7
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin8 *number*

Description	The number of FEC codewords containing 8 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin8 *number*
Tree	bin8

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Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin9 *number*

Description	The number of FEC codewords containing 9 symbol errors
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router histogram bin9 *number*
Tree	bin9
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the forward-error-correction statistics were cleared
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

post-fec-ber

Description	Enter the post-fec-ber context

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Bit error rate after forward error correction

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber

Tree post-fec-ber

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

avg *decimal-number*

Description The arithmetic mean value of the ber

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber avg *decimal-number*

Tree avg

Units bit-errors-per-second

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instant *decimal-number*

Description The instantaneous value of the ber

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber instant *decimal-number*

Tree instant

Units bit-errors-per-second

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max *decimal-number*

Description	The maximum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber max *decimal-number*
Tree	max
Units	bit-errors-per-second
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-time *string*

Description	The date and time at which the maximum value of the ber occurred
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber max-time *string*
Tree	max-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min *decimal-number*

Description	The minimum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber min *decimal-number*
Tree	min
Units	bit-errors-per-second
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-

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gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-time *string*

Description The date and time at which the minimum value of the ber occurred

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router post-fec-ber min-time *string*

Tree min-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pre-fec-ber

Description Enter the pre-fec-ber context

Bit error rate before forward error correction

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber

Tree pre-fec-ber

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

avg *decimal-number*

Description The arithmetic mean value of the ber

Context interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber avg *decimal-number*

Tree avg

Units bit-errors-per-second

Configurable False

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instant *decimal-number*

Description	The instantaneous value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber instant *decimal-number*
Tree	instant
Units	bit-errors-per-second
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max *decimal-number*

Description	The maximum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber max *decimal-number*
Tree	max
Units	bit-errors-per-second
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-time *string*

Description	The date and time at which the maximum value of the ber occurred
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber max-time *string*
Tree	max-time

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String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min *decimal-number*

Description	The minimum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber min *decimal-number*
Tree	min
Units	bit-errors-per-second
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-time *string*

Description	The date and time at which the minimum value of the ber occurred
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router pre-fec-ber min-time *string*
Tree	min-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description	Operational status of FEC

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Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router status *keyword*
Tree	status
Options	• locked • unlocked
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-if-fec-transceiver

Description	Enter the host-if-fec-transceiver context Statistics for fec as reported at the transceiver for the host interface; received from the router Not all configurations have FEC enabled in the transceiver for the host interface so this set of statistics will not always be available.
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver
Tree	host-if-fec-transceiver
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-error-count

Description	Enter the frame-error-count context The number of uncorrectable FEC blocks/frames
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver frame-error-count
Tree	frame-error-count
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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avg *number*

Description	The arithmetic mean value of the ferc
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver frame-error-count avg *number*
Tree	avg
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instant *number*

Description	The instantaneous value of the ferc
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver frame-error-count instant *number*
Tree	instant
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max *number*

Description	The maximum value of the ferc
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver frame-error-count max *number*
Tree	max
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min *number*

Description	The minimum value of the ferc
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver frame-error-count min *number*
Tree	min
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pre-fec-ber

Description	Enter the pre-fec-ber context Bit error rate before forward error correction
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver pre-fec-ber
Tree	pre-fec-ber
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

avg *decimal-number*

Description	The arithmetic mean value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver pre-fec-ber avg *decimal-number*
Tree	avg
Units	bit-errors-per-second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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instant *decimal-number*

Description	The instantaneous value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver pre-fec-ber instant *decimal-number*
Tree	instant
Units	bit-errors-per-second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max *decimal-number*

Description	The maximum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver pre-fec-ber max *decimal-number*
Tree	max
Units	bit-errors-per-second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min *decimal-number*

Description	The minimum value of the ber
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-transceiver pre-fec-ber min *decimal-number*
Tree	min
Units	bit-errors-per-second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-viable *boolean*

Description If true: this LAG member link should be used for the transmission of traffic if all other LAG/port attributes allow it.

If false: this LAG member link should not be used for the transmission of traffic.

In all cases: This LAG member link should process any received frames when it is an active member link. L2 protocols such as LLDP, LACP and micro-BFD should continue to be sent and processed.

Context interface name *string* ethernet forwarding-viable *boolean*

Tree forwarding-viable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-time

Description Enter the hold-time context

Configure interface hold timers for Ethernet interfaces

Context interface name *string* ethernet hold-time

Tree hold-time

Configurable True

Platforms Supported on all platforms

down *number*

Description Holds link down events for the configured time

The hold-time down behavior is triggered with events that try to bring the ethernet interface down and can change quickly. It is not triggered with an admin-state disable event or interface disable due to other internal reasons (such as fabric unavailability). When running, the interface will not be brought down till the timer expires. The typical use of the hold-time down is to provide stability and avoid the protocols to advertise/withdraw messages if there are flapping optics. The hold-time down is aborted if the user does admin-state disable or if the interface is disabled due to other internal reasons that prevent the traffic to be forwarded on the interface.

Context interface name *string* ethernet hold-time down *number*

Tree down

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Range	0 | 100 to 86400000
Default	0
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

down-expires *string*

Description	The remaining time until the hold-time down expires and the interface goes operationally down.
Context	interface name *string* ethernet hold-time down-expires *string*
Tree	down-expires
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

up *number*

Description	Holds link up events for the configured time The hold-time up behavior is triggered with any event that tries to bring up the ethernet interface (interface admin-state enable, a reboot, etc). While the hold-time up is running, the transceiver laser will be enabled, however the higher layers will not be notified that the interface is operationally up until the timer expires.
Context	interface name *string* ethernet hold-time up *number*
Tree	up
Range	0 | 100 to 86400000
Default	0
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

up-expires *string*

Description	The remaining time until the hold-time up expires and the interface comes up.
Context	interface name *string* ethernet hold-time up-expires *string*

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Tree	up-expires
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

hw-mac-address *string*

Description	The MAC address associated with the port
Context	interface name *string* ethernet hw-mac-address *string*
Tree	hw-mac-address
Configurable	False
Platforms	Supported on all platforms

l2cp-transparency

Description	Configuration and state of the Layer-2 Control Protocol transparency
Context	interface name *string* ethernet l2cp-transparency
Tree	l2cp-transparency
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

efm-oam

Description	Enter the efm-oam context Container for the configuration of Ethernet in the First Mile OAM frames
Context	interface name *string* ethernet l2cp-transparency efm-oam
Tree	efm-oam
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

oper-rule *keyword*

Description	The operational state of the TCAM rule applied to ingress EFM-OAM frames.

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Context interface name *string* ethernet l2cp-transparency efm-oam oper-rule *keyword*

Tree oper-rule

Options
- trap-to-cpu-untagged
- drop-tagged-and-untagged
- tunnel-tagged-and-untagged
- tunnel-tagged-drop-untagged
- tunnel-tagged-trap-to-cpu-untagged
- trap-to-cpu-tagged-and-untagged

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

tunnel *boolean*

Description Configures if incoming EFM-OAM frames are tunneled

EFM-OAM frames are identified by Ethertype 0x8809 and slow protocol subtype 0x03.

Context interface name *string* ethernet l2cp-transparency efm-oam tunnel *boolean*

Tree tunnel

Default false

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

elmi

Description Enter the elmi context

Container for the configuration of Ethernet local management interface frames

Context interface name *string* ethernet l2cp-transparency elmi

Tree elmi

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

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oper-rule *keyword*

Description The operational state of the TCAM rule applied to ingress ELMI frames

Context interface name *string* ethernet l2cp-transparency elmi oper-rule *keyword*

Tree oper-rule

Options

- trap-to-cpu-untagged
- drop-tagged-and-untagged
- tunnel-tagged-and-untagged
- tunnel-tagged-drop-untagged
- tunnel-tagged-trap-to-cpu-untagged
- trap-to-cpu-tagged-and-untagged

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

tunnel *boolean*

Description Configures if incoming ELMI frames are tunneled

ELMI frames are identified by MAC DA 01-80-C2-00-00-07 and Ethertype 0x88ee.

Context interface name *string* ethernet l2cp-transparency elmi tunnel *boolean*

Tree tunnel

Default false

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

esmc

Description Enter the esmc context

Container for the configuration of Ethernet synchronization messaging channel frames

Context interface name *string* ethernet l2cp-transparency esmc

Tree esmc

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

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oper-rule *keyword*

Description The operational state of the TCAM rule applied to ingress ESMC frames

Context interface name *string* ethernet l2cp-transparency esmc oper-rule *keyword*

Tree oper-rule

Options

- trap-to-cpu-untagged
- drop-tagged-and-untagged
- tunnel-tagged-and-untagged
- tunnel-tagged-drop-untagged
- tunnel-tagged-trap-to-cpu-untagged
- trap-to-cpu-tagged-and-untagged

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

tunnel *boolean*

Description Configures if incoming esmc frames are tunneled

ESMC frames are identified by Ethertype 0x8809 and slow protocol subtype 0x0A.

Context interface name *string* ethernet l2cp-transparency esmc tunnel *boolean*

Tree tunnel

Default false

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

lacp

Description Enter the lacp context

Container for L2CP transparency of the Link Aggregation Control Protocol

Context interface name *string* ethernet l2cp-transparency lacp

Tree lacp

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10,

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7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-rule *keyword*

Description The operational state of the TCAM rule applied to ingress LACP frames.

Context interface name *string* ethernet l2cp-transparency lacp oper-rule *keyword*

Tree oper-rule

Options

- trap-to-cpu-untagged
- drop-tagged-and-untagged
- tunnel-tagged-and-untagged
- tunnel-tagged-drop-untagged
- tunnel-tagged-trap-to-cpu-untagged
- trap-to-cpu-tagged-and-untagged

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel *boolean*

Description Configures if incoming LACP frames are tunneled.

LACP frames are identified by MAC DA 01-80-c2-00-00-02, Ethertype 0x8809 and slow-protocol sub-type 0x01.

Context interface name *string* ethernet l2cp-transparency lacp tunnel *boolean*

Tree tunnel

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

lldp

Description Enter the lldp context

Container for L2CP transparency of the Link Layer Discovery Protocol

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Context	interface name *string* ethernet l2cp-transparency lldp
Tree	lldp
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-rule *keyword*

Description	The operational state of the TCAM rule applied to ingress LLDP frames.
Context	interface name *string* ethernet l2cp-transparency lldp oper-rule *keyword*
Tree	oper-rule
Options	• trap-to-cpu-untagged • drop-tagged-and-untagged • tunnel-tagged-and-untagged • tunnel-tagged-drop-untagged • tunnel-tagged-trap-to-cpu-untagged • trap-to-cpu-tagged-and-untagged
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel *boolean*

Description	Configures if incoming LLDP frames are tunneled. LLDP frames are identified by MAC DA 01-80-c2-00-00-00 and Ethertype 0x88cc.
Context	interface name *string* ethernet l2cp-transparency lldp tunnel *boolean*
Tree	tunnel
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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ptp

Description Enter the ptp context

Container for the configuration of Precision Time Protocol Peer-Delay frames.

Context interface name *string* ethernet l2cp-transparency ptp

Tree ptp

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-rule *keyword*

Description The operational state of the TCAM rule applied to ingress ptp frames.

Context interface name *string* ethernet l2cp-transparency ptp oper-rule *keyword*

Tree oper-rule

Options

- trap-to-cpu-untagged
- drop-tagged-and-untagged
- tunnel-tagged-and-untagged
- tunnel-tagged-drop-untagged
- tunnel-tagged-trap-to-cpu-untagged
- trap-to-cpu-tagged-and-untagged

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel *boolean*

Description Configures if incoming ptp frames are tunneled.

ptp frames are identified by MAC DA 01-80-c2-00-00-0e and Ethertype 0x88f7.

Context interface name *string* ethernet l2cp-transparency ptp tunnel *boolean*

Tree tunnel

Default false

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel-all-l2cp *boolean*

Description	Configures the tunneling of all the L2CP protocols. When set to true this command triggers the installation of an ingress TCAM rule with the highest priority (above all the individual L2CP tunnel rules) which allows the forwarding of any Layer-2 Control Protocol coming into the interface. All the L2CP frames identified by MAC DA = 01:80:c2:00:00:0x or MAC DA = 01:80:c2:00:00:2x, with 'x' being any hex value, are tunneled. When set to false, all L2CP frames without a specific L2CP tunnel rule are discarded.
Context	interface name *string* ethernet l2cp-transparency tunnel-all-l2cp *boolean*
Tree	tunnel-all-l2cp
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

xstp

Description	Enter the xstp context Container for the configuration of all the Spanning Tree Protocols. It includes Spanning Tree Protocol (STP), Rapid RSTP (RSTP) and Multiple STP (MSTP)
Context	interface name *string* ethernet l2cp-transparency xstp
Tree	xstp
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

oper-rule *keyword*

Description	The operational state of the TCAM rule applied to ingress xSTP frames.

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Context	interface name *string* ethernet l2cp-transparency xstp oper-rule *keyword*
Tree	oper-rule
Options	• trap-to-cpu-untagged • drop-tagged-and-untagged • tunnel-tagged-and-untagged • tunnel-tagged-drop-untagged • tunnel-tagged-trap-to-cpu-untagged • trap-to-cpu-tagged-and-untagged
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

tunnel *boolean*

Description	Configures if incoming xSTP frames are tunneled. xSTP frames are identified by MAC DA 01-80-c2-00-00-00 and any Ethertype.
Context	interface name *string* ethernet l2cp-transparency xstp tunnel *boolean*
Tree	tunnel
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

lacp-port-priority *number*

Description	Configure the port priority for LACP. This value is used to determine which port should be activated with LACP fallback mode. Lower values are more preferred.
Context	interface name *string* ethernet lacp-port-priority *number*
Tree	lacp-port-priority
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss-forwarding *boolean*

Description Indicates whether link-loss-forwarding is enabled in the interface

When enabled, faults can be propagated to the devices connected to this interface. It is supported on interfaces with a single non-tagged subinterface that is associated to a network-instance of type vpws. On VPWS services, the propagation of faults from a connection-point to the opposite connection-point is known as Link Loss Forwarding and requires setting this command to true and the standby-signaling command to the type of propagation signaling to be used with the connected Customer Equipment.

Context interface name *string* ethernet link-loss-forwarding *boolean*

Tree link-loss-forwarding

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description MAC address of the interface

If not configured, this is set to the hw-mac-address, which is populated depending on interface type:

When deleted, will revert back to the value of hw-mac-address.

Context interface name *string* ethernet mac-address *string*

Tree mac-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

physical-medium *keyword*

Description Indicates the PHY supported by the RJ45 port.

If the port is supported by a SFP, QSFP+, QSFP28 or QSFP-DD transceiver no value is populated in this leaf.

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Context	interface name *string* ethernet physical-medium *keyword*
Tree	physical-medium
Options	• 1000BASE-T
Configurable	False
Platforms	Supported on all platforms

port-speed *keyword*

Description

The speed of the port or channel

If this parameter is configured, then the configured value will be applied. If it is not configured, then there are two mechanisms that will set a speed for the port.

Some platforms support a mechanism to automatically set the port-speed based on the form factor of the inserted transceiver. form-factor speed QSFP28 100G SFP112 100G SFP56-DD 100G SFP 1G SFP+ 10G QSFP56-DD 400G QSFP56 200G QSFP28-DD 200G SFP28 25G QSFP112 400G QSFP+ 40G QSFP28-50G 50G SFP56 50G QSFP112-DD 800G CFP2-DCO 400G OSFP800 800G

When the auto-configuration of speed based on form factor is not supported and the speed is not configured, then the default speed of a port (when auto-negotiation is disabled or unsupported) depends on the platform and port/connector number as follows:

mgmt0 and mgmt0-standby ports: 1G 7250 IXR-6/10 IMM ports 1-32: 100G 7250 IXR-6/10 IMM ports 33-36: 100G 7215 IXS-A1 ports 1-48: 1G 7215 IXS-A1 ports 49-52: 10G 7220-D1 ports 1-48: 1G 7220-D1 ports 49-52: 10G 7220-D2/D2L ports 1-48: 25G 7220-D2/D2L ports 49-56: 100G 7220-D2L ports 57-58: 10G 7220-D3 ports 1-2: 10G 7220-D3 ports 3-34: 100G 7220-D3L ports 1-32: 100G 7220-D3L ports 33-34: 10G 7220-D4 ports 1-28: 100G 7220-D4 ports 29-36: 400G 7220-D5 ports 1-32: 400G 7220-D5 ports 33-38: 10G 7220-H2 ports 1-128: 100G 7220-H3 ports 1-2: 10G 7220-H3 ports 3-34: 400G 7220-H4 ports 1-64: 400G 7220-H4 ports 65-66: 10G 7220-H4-32D ports 1-32: 400G 7220-H4-32D ports 33: 10G 7220-H5-32D ports 1-32: 800G 7220-H5-32D ports 33-34: 10G 7220-H5-64D ports 1-64: 800G 7220-H5-64D ports 65-66: 10G 7220-H5-64O ports 1-64: 800G 7220-H5-64O ports 65-66: 10G 7220-H6-64 ports 1-64: 1.6T 7220-H6-64 ports 65-66: 25G 7250 IXR-6e/10e 60p QSFP28 IMM all ports: 100G 7250 IXR-6e/10e 36p QSFPDD-400 IMM all ports: 400G 7250 IXR-6e/10e/18e 36p QSFP112-DD IMM all ports: 800G 7250 IXR-6e/10e/18e 36p OSFP IMM all ports: 800G 7250 IXR-X1b QSFP28 ports 1-24: 100G 7250 IXR-X1b QSFPDD ports 25-36: 400G 7250 IXR-X3b QSFPDD all ports: 400G 7250 IXR-X4 QSFP112-DD all ports: 800G 7250 IXR-X4-OSFP all ports:

Supported speeds (non-breakout): mgmt0 and mgmt0-standby ports: 1G 7250 IXR-6/10 IMM ports 1-8,13-32: 40G, 100G 7250 IXR-6/10 IMM ports 9-12: 100G 7250 IXR-6/10 IMM ports 33-36: 40G, 100G, 400G 7215 IXS-A1 ports 1-48: 10M, 100M, 1G 7215 IXS-A1 ports 49-52: 1G, 10G 7220-D1

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ports 1-48: 10M, 100M, 1G 7220-D1 ports 49-52: 10G 7220-D2/D2L ports 1-48: 1G, 10G, 25G (Note 2) 7220-D2 ports 49-56: 10G, 25G, 40G, 100G 7220-D2L ports 49-56: 10G, 25G, 40G, 100G 7220-D2L ports 57-58: 10G 7220-D3 ports 1-2: 10G 7220-D3 ports 3-34: 10G, 25G, 40G, 50G, 100G 7220-D3L ports 1-32: 10G, 25G, 40G, 50G, 100G 7220-D3L ports 33-34: 10G 7220-D4 ports 1-8: 40G, 100G 7220-D4 ports 9-28: 10G, 25G, 40G, 100G 7220-D4 ports 29-36: 10G, 25G, 40G, 100G, 400G 7220-D5 ports 1-32: 40G, 100G, 400G 7220-D5 ports 33-38: 10G 7220-H2 ports 1-128: 100G 7220-H3 ports 1-2: 10G 7220-H3 ports 3-34: 40G, 100G, 200G, 400G 7220-H4 ports 1-64: 40G, 100G, 200G, 400G 7220-H4 ports 65-66: 10G 7220-H4-32D ports 1-32: 40G, 100G, 200G, 400G 7220-H4-32D ports 33: 10G 7220-H5-32D ports 1-32: 50G, 100G, 200G, 400G, 800G 7220-H5-32D ports 33-34: 10G 7220-H5-64D ports 1-64: 50G, 100G, 200G, 400G, 800G 7220-H5-64D ports 65-66: 10G 7220-H5-64O ports 1-64: 800G 7220-H5-64O ports 65-66: 10G 7220-H6-64 ports 1-64: 400G, 800G, 1.6T 7220-H6-64 ports 65-66: 10G, 25G 7250 IXR-6e/10e 60p QSFP28 IMM all ports: 100G 7250 IXR-6e/10e 36p QSFPDD-400 IMM all ports: 40G, 100G, 400G 7250 IXR-6e/10e/18e 36p QSFP112-DD IMM all ports: 100G, 400G, 800G 7250 IXR-6e/10e/18e 36p OSFP IMM all ports: 800G 7250 IXR-X1b QSFP28 ports 1-24: 10G, 40G, 100G (Note 4) 7250 IXR-X1b QSFPDD ports 25-36: 10G, 40G, 100G, 200G, 400G 7250 IXR-X3b QSFPDD all ports: 10G, 40G, 100G, 200G, 400G 7250 IXR-X4 QSFP112-DD all ports: 100G, 400G, 800G 7250 IXR-X4-OSFP all ports

Note 1: Use of 100G with fec enabled is supported on every port. Use of 100G with no FEC and 40G are only supported on odd numbered ports If port 11 is used with 100G with no FEC or 40G, then port 10 shall be disabled.

Note 2: On 7220-D2: if one port in each consecutive group of 4 ports (1-4, 5-8, .. , 45-48) is enabled and has a configured speed of 25G then the other 3 ports may only be enabled if they also have a configured speed of 25G or no speed configured; if one port in each consecutive group of 4 ports (1-4, 5-8, .. , 45-48) is enabled and has a configured speed of 1G or 10G the other 3 ports may only be enabled if they also have a configured speed of 1G or 10G or no speed configured. On 7220-D2L: if one port in each port group of 4 ports ({1, 2, 3, 6}, {4, 5, 7, 9}, {8, 10, 11, 12}, {13, 14, 15, 18}, {16, 17, 19, 21}, {20, 22, 23, 24}, {25, 26, 27, 30}, {28, 29, 31, 33}, {32, 34, 35, 36}, {37, 38, 39, 42}, {40, 41, 43, 45}, {44, 46, 47, 48}) is enabled and has a configured speed of 25G the other 3 ports may only be enabled if they also have a configured speed of 25G or no speed configured; if one port in each port group of 4 ports is enabled and has a configured speed of 1G or 10G the other 3 ports may only be enabled if they also have a configured speed of 1G or 10G or no speed configured.

Note 3: Breakout and 40G is only supported on odd numbered ports. For the QSFP28 four port groupings [1-4], [5-8], [9-12], [13-16], [21-24], [25-28], and [29-32] if either of the odd numbered ports within a group is configured for 40G, 4x10G, or 4x25G, then the other odd numbered port in the same group may only be configured if it is configured for one of 40G, 4x10G, or 4x25G (can differ between the odd ports) and neither of the two even numbered ports within the same group can be configured.

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Note 4: For the QSFP28 ports, the following port groups exist [n, n+1, n+2, n+3] for n = 1, 5, 9, 13, 17, 21. 4x25G or 4x10G breakout, and 10G, are only supported on ports n+1 and n+3. When initially configuring a port with a breakout configuration or port speed that does not already exist on another configured port within the same group, then a link flap and traffic hit may occur on other ports within the same group. When the breakout configuration or port speed is changed for a port in a group, then a link flap and traffic hit may occur on other ports within the same group. If port n+1 within the group is configured for breakout, then port n cannot be configured. In addition if port n+1 is configured for breakout and port n+3 is configured without breakout, then port n+2 may only be configured with the same speed as port n+3. If port n+3 within the group is configured for breakout, then port n+2 cannot be configured. In addition if port n+3 is configured for breakout and port n+1 is configured without breakout, then port n may only be configured with the same speed as port n+1.

Note 5: QSFP28 port 2 is disabled if port 1 is configured with breakout-mode or port-speed 40G; QSFP28 port 4 is disabled if port 3 is configured with breakout-mode or port-speed 40G.

7250 IXR details: If the interface corresponds to a connector that has no installed transceiver then the value is accepted without any checking or restriction, and info from state will display the configured value. Otherwise if the configured port-speed is NOT supported by the installed transceiver the port is forced operationally down.

Port Groups and auto-configuration: Manually configured and enabled port-speed (and breakout-modes) take precedence over the auto-configured port-speed. This means that configuring and enabling a port within a port-group can have a side effect to take down an operational port that had its speed set based on the auto-configuration feature. If there is risk of mixing transceiver types within a port group, then it is recommended to always manually configure the speed for enabled ports

Context interface name *string* ethernet port-speed *keyword*

Tree port-speed

Options

- 10M
- 100M
- 1G
- 2.5G
- 5G
- 10G
- 25G
- 40G
- 50G
- 100G
- 200G
- 400G

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- 800G
- 1T
- 1.6T

Configurable True

Platforms Supported on all platforms

ptp-asymmetry *number*

Description This command configures the PTP asymmetry delay on the Ethernet port

This command is used to correct known asymmetry as part of time of day or phase recovery using PTP packets on both local and downstream PTP clocks.

Context interface name *string* ethernet ptp-asymmetry *number*

Tree ptp-asymmetry

Default 0

Units nanoseconds

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp-timestamping

Description Enable the ptp-timestamping context

Context interface name *string* ethernet ptp-timestamping

Tree ptp-timestamping

Configurable True

Platforms Supported on 7220 IXR-D5, 7250 IXR-X3b

disable-ip-timestamping *boolean*

Description Disables timestamping of PTP over IP messages on this port

For platforms supporting PTP functionality, any transiting PTP over IP packets are timestamped in hardware by default, regardless of whether PTP is enabled on the system. To avoid unwanted correction-field updates of PTP transit packets on ports (ports involved in PTP packet transit only), this command can be used to disabled the timestamping.

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Context	interface name *string* ethernet ptp-timestamping disable-ip-timestamping *boolean*
Tree	disable-ip-timestamping
Configurable	True
Platforms	Supported on 7220 IXR-D5, 7250 IXR-X3b

reload-delay *number*

Description	Configure reload-delay timer for Ethernet interfaces. The reload-delay timer starts when the associated XDP interface state is learned. While the timer is running, the interface transceiver laser is disabled to avoid attracting traffic from the connected device at the other end of the interface. The reload-delay timer should be used in multi-homing interfaces and be set to a value long enough to allow the system to recover all the network protocols upon reboot, before start attracting traffic from the multi-homed device.
Context	interface name *string* ethernet reload-delay *number*
Tree	reload-delay
Range	1 to 86400
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reload-delay-expires *string*

Description	The remaining time until the reload-delay expires and the interface can go operationally up.
Context	interface name *string* ethernet reload-delay-expires *string*
Tree	reload-delay-expires
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standby-signaling *keyword*

Description Indicates the standby-signaling used in the interface.

An application using a port-based redundancy mechanism will trigger the standby signaling on the ethernet interface if the interface is selected as standby.

Context interface name *string* ethernet standby-signaling *keyword*

Tree standby-signaling

Options
- power-off
- lacp

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context interface name *string* ethernet statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

in-1024b-to-1518b-frames *number*

Description Number of received Ethernet frames that are 1024-1518 bytes in length

Context interface name *string* ethernet statistics in-1024b-to-1518b-frames *number*

Tree in-1024b-to-1518b-frames

Default 0

Configurable False

Platforms Supported on all platforms

in-128b-to-255b-frames *number*

Description Number of received Ethernet frames that are 128-255 bytes in length

Context interface name *string* ethernet statistics in-128b-to-255b-frames *number*

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Tree	in-128b-to-255b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-1519b-or-longer-frames *number*

Description	Number of received Ethernet frames that are 1519 bytes or longer
Context	interface name *string* ethernet statistics in-1519b-or-longer-frames *number*
Tree	in-1519b-or-longer-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-256b-to-511b-frames *number*

Description	Number of received Ethernet frames that are 256-511 bytes in length
Context	interface name *string* ethernet statistics in-256b-to-511b-frames *number*
Tree	in-256b-to-511b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-512b-to-1023b-frames *number*

Description	Number of received Ethernet frames that are 512-1023 bytes in length
Context	interface name *string* ethernet statistics in-512b-to-1023b-frames *number*
Tree	in-512b-to-1023b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-64b-frames *number*

Description	Number of received Ethernet frames that are exactly 64 bytes in length
Context	interface name *string* ethernet statistics in-64b-frames *number*

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Tree	in-64b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-65b-to-127b-frames *number*

Description	Number of received Ethernet frames that are 65-127 bytes in length
Context	interface name *string* ethernet statistics in-65b-to-127b-frames *number*
Tree	in-65b-to-127b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-crc-error-frames *number*

Description	Number of receive error events due to FCS/CRC check failure
Context	interface name *string* ethernet statistics in-crc-error-frames *number*
Tree	in-crc-error-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-fragment-frames *number*

Description	Number of fragment frames received on the interface
Context	interface name *string* ethernet statistics in-fragment-frames *number*
Tree	in-fragment-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

in-jabber-frames *number*

Description	Number of jabber frames received on the interface

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Jabber frames are typically defined as oversize frames which also have a bad CRC.

Context interface name *string* ethernet statistics in-jabber-frames *number*

Tree in-jabber-frames

Default 0

Configurable False

Platforms Supported on all platforms

in-mac-pause-frames *number*

Description Number of MAC layer PAUSE frames received on the interface

Context interface name *string* ethernet statistics in-mac-pause-frames *number*

Tree in-mac-pause-frames

Default 0

Configurable False

Platforms Supported on all platforms

in-oversize-frames *number*

Description Number of oversize frames received on the interface

Oversize frames are frames that exceed the operational port MTU.

Context interface name *string* ethernet statistics in-oversize-frames *number*

Tree in-oversize-frames

Default 0

Configurable False

Platforms Supported on all platforms

in-undersize-frames *number*

Description Number of undersize frames received on the interface

Undersize frames are frames less than 64 octets long, excluding framing bits, but including FCS octets.

Context interface name *string* ethernet statistics in-undersize-frames *number*

Tree in-undersize-frames

Default 0

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the MAC counters were cleared
Context	interface name *string* ethernet statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

out-1024b-to-1518b-frames *number*

Description	Number of transmitted Ethernet frames that are 1024-1518 bytes in length
Context	interface name *string* ethernet statistics out-1024b-to-1518b-frames *number*
Tree	out-1024b-to-1518b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

out-128b-to-255b-frames *number*

Description	Number of transmitted Ethernet frames that are 128-255 bytes in length
Context	interface name *string* ethernet statistics out-128b-to-255b-frames *number*
Tree	out-128b-to-255b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

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out-1519b-or-longer-frames *number*

Description	Number of transmitted Ethernet frames that are 1519 bytes or longer
Context	interface name *string* ethernet statistics out-1519b-or-longer-frames *number*
Tree	out-1519b-or-longer-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

out-256b-to-511b-frames *number*

Description	Number of transmitted Ethernet frames that are 256-511 bytes in length
Context	interface name *string* ethernet statistics out-256b-to-511b-frames *number*
Tree	out-256b-to-511b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

out-512b-to-1023b-frames *number*

Description	Number of transmitted Ethernet frames that are 512-1023 bytes in length
Context	interface name *string* ethernet statistics out-512b-to-1023b-frames *number*
Tree	out-512b-to-1023b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

out-64b-frames *number*

Description	Number of transmitted Ethernet frames that are exactly 64 bytes in length
Context	interface name *string* ethernet statistics out-64b-frames *number*
Tree	out-64b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

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out-65b-to-127b-frames *number*

Description	Number of transmitted Ethernet frames that are 65-127 bytes in length
Context	interface name *string* ethernet statistics out-65b-to-127b-frames *number*
Tree	out-65b-to-127b-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

out-mac-pause-frames *number*

Description	Number of MAC layer PAUSE frames sent on the interface
Context	interface name *string* ethernet statistics out-mac-pause-frames *number*
Tree	out-mac-pause-frames
Default	0
Configurable	False
Platforms	Supported on all platforms

storm-control

Description	Enable the storm-control context
Context	interface name *string* ethernet storm-control
Tree	storm-control
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

broadcast-rate *number*

Description	The maximum rate allowed for ingress broadcast frames on the interface The rate can be set in multiple of 64kbps. If the rate is configured to any value in the 1-127 kbps range, the effective rate will be 64kbps and shown in the operational rate. If any value in the 128-191 range, the effective rate will be 128kbps and shown in the operational rate, and so on for higher rates. When the rate is set to zero, all the broadcast traffic in the interface is discarded. The maximum rate that can be effectively configured in 7220 D4/D5 platforms is 132000000. When a configured percentage exceeds that value,

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the maximum supported rate is set and shown in the operational-broadcast-rate.

Context interface name *string* ethernet storm-control broadcast-rate *number*

Tree broadcast-rate

Range 0 to 132000000

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

multicast-rate *number*

Description The maximum rate allowed for ingress multicast frames on the interface

The rate can be set in multiple of 64kbps. If the rate is configured to any value in the 1-127 kbps range, the effective rate will be 64kbps and shown in the operational rate. If any value in the 128-191 range, the effective rate will be 128kbps and shown in the operational rate, and so on for higher rates. When the rate is set to zero, all the multicast traffic in the interface is discarded.

The maximum rate that can be effectively configured in 7220 D4/D5 platforms is 132000000. When a configured percentage exceeds that value, the maximum supported rate is set and shown in the operational-multicast-rate.

Context interface name *string* ethernet storm-control multicast-rate *number*

Tree multicast-rate

Range 0 to 132000000

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

operational-broadcast-rate *number*

Description The operational maximum rate for ingress broadcast frames programmed on the interface

Context interface name *string* ethernet storm-control operational-broadcast-rate *number*

Tree operational-broadcast-rate

Units kbps

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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operational-multicast-rate *number*

Description	The operational maximum rate for ingress multicast frames programmed on the interface
Context	interface name *string* ethernet storm-control operational-multicast-rate *number*
Tree	operational-multicast-rate
Units	kbps
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

operational-unknown-unicast-rate *number*

Description	The operational maximum rate for ingress unknown unicast frames programmed on the interface
Context	interface name *string* ethernet storm-control operational-unknown-unicast-rate *number*
Tree	operational-unknown-unicast-rate
Units	kbps
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

rising-threshold-action *keyword*

Description	Configures the action triggered when traffic exceeds the configured storm-control rates
Context	interface name *string* ethernet storm-control rising-threshold-action *keyword*
Tree	rising-threshold-action
Default	none
Options	• none No action is triggered upon exceeding any of the storm-control configured rates • trigger-event An event is triggered upon exceeding any of the storm-control configured rates • disable-interface

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the interface is disabled upon exceeding any of the storm-control configured rates

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

units *keyword*

Description Units of storm-control policer in kbps or percentage of the interface bandwidth

Context interface name *string* ethernet storm-control units *keyword*

Tree units

Default percentage

Options

- kbps
- percentage

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

unknown-unicast-rate *number*

Description The maximum rate allowed for ingress unknown unicast frames on the interface

The rate can be set in multiple of 64kbps. If the rate is configured to any value in the 1-127 kbps range, the effective rate will be 64kbps and shown in the operational rate. If any value in the 128-191 range, the effective rate will be 128kbps and shown in the operational rate, and so on for higher rates. When the rate is set to zero, all the unknown unicast traffic in the interface is discarded.

The maximum rate that can be effectively configured in 7220 D4/D5 platforms is 132000000. When a configured percentage exceeds that value, the maximum supported rate is set and shown in the operational-multicast-rate.

Context interface name *string* ethernet storm-control unknown-unicast-rate *number*

Tree unknown-unicast-rate

Range 0 to 132000000

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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synce

Description This struct containing all attributes for SyncE in line/client ports.

Context interface name *string* ethernet synce

Tree synce

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssm

Description Enter the ssm context

This struct containing all attributes for QL/SSM with SyncE in these ports.

Context interface name *string* ethernet synce ssm

Tree ssm

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configure the administrative state for SyncE in line/client ports. When enabled, the associated transmit and receiver ports are set to synchronous mode and ESMC/SSM processing is enabled. Otherwise, all syncE functions are disabled in the port.

Context interface name *string* ethernet synce ssm admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-complex *reference*

Description	The forwarding-complex on which this interface resides This field is not populated for non-forwarding-complex-attached interfaces, for example mgmt0.
Context	interface name *string* forwarding-complex *reference*
Tree	forwarding-complex
Reference	platform linecard slot *number* forwarding-complex name *keyword*
Configurable	False
Platforms	Supported on all platforms

forwarding-mode *keyword*

Description	The forwarding mode for Ethernet frames received on this interface
Context	interface name *string* forwarding-mode *keyword*
Tree	forwarding-mode
Options	• store-and-forward • cut-through
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

ifindex *number*

Description	System-wide persistent unique ifIndex assigned to the interface
Context	interface name *string* ifindex *number*
Tree	ifindex
Configurable	False
Platforms	Supported on all platforms

lag

Description	Container for options related to LAG
Context	interface name *string* lag
Tree	lag

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp

Description LACP parameters for the associated LAG

Context interface name *string* lag lacp

Tree lacp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-key *number*

Description Configure the LACP admin-key to be advertised by the local system. If this value is not specified a value starting from 32768 is automatically assigned by the system.

Context interface name *string* lag lacp admin-key *number*

Tree admin-key

Range 1 to 65535

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interval *keyword*

Description Set the period between LACP messages -- uses the lacp-period-type enumeration.

Context interface name *string* lag lacp interval *keyword*

Tree interval

Default SLOW

Options

- FAST

  Send LACP packets every second

- SLOW

  Send LACP packets every 30 seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-mode *keyword*

Description ACTIVE is to initiate the transmission of LACP packets. PASSIVE is to wait for peer to initiate the transmission of LACP packets.

Context interface name *string* lag lacp lacp-mode *keyword*

Tree lacp-mode

Default ACTIVE

Options

- ACTIVE

  Interface is an active member, i.e., will detect and maintain aggregates

- PASSIVE

  Interface is a passive member, i.e., it participates with an active partner

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id-mac *string*

Description The MAC address portion of the node's System ID. This is combined with the system priority to construct the 8-octet system-id. If not configured, the system-ID configured at the system/ level is used.

Context interface name *string* lag lacp system-id-mac *string*

Tree system-id-mac

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-priority *number*

Description System priority used by the node on this LAG interface. Lower value is higher priority for determining which node is the controlling system. If not configured, the system-priority configured at the system/ level is used.

Context interface name *string* lag lacp system-priority *number*

Tree system-priority

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-fallback-mode *keyword*

Description Specifies lacp-fallback mode if enabled

Context interface name *string* lag lacp-fallback-mode *keyword*

Tree lacp-fallback-mode

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Options
- none
  LACP-fallback mode is not enabled
- static
  Set the LACP-fallback mode as static
- individual
  Set the LACP-fallback mode as individual

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-fallback-timeout *number*

Description Specifies the LACP-fallback timeout interval in seconds

Context interface name *string* lag lacp-fallback-timeout *number*

Tree lacp-fallback-timeout

Range 4 to 3600

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-speed *number*

Description reports current aggregate bandwidth speed of the associated LAG

Context interface name *string* lag lag-speed *number*

Tree lag-speed

Units Mbps

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-type *keyword*

Description	Sets the type of LAG, i.e., how it is configured / maintained
Context	interface name *string* lag lag-type *keyword*
Tree	lag-type
Default	static
Options	• lacp LAG managed by LACP • static Statically configured bundle / LAG
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member name *reference*

Description	Reports the list of interfaces associated with the LAG instance
Context	interface name *string* lag member name *reference*
Tree	member
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Enter the name context

Context interface name *string* lag member name *reference*

Reference interface name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp

Description Enter the lacp context

Operational status data for the member interfaces

Context interface name *string* lag member name *reference* lacp

Tree lacp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

activity *keyword*

Description Indicates participant is active or passive

Context interface name *string* lag member name *reference* lacp activity *keyword*

Tree activity

Options

- ACTIVE

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Interface is an active member, i.e., will detect and maintain aggregates

- PASSIVE

  Interface is a passive member, i.e., it participates with an active partner

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregatable *boolean*

Description A true value indicates that the participant will allow the link to be used as part of the aggregate. A false value indicates the link should be used as an individual link

Context interface name *string* lag member name *reference* lacp aggregatable *boolean*

Tree aggregatable

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collecting *boolean*

Description If true, the participant is collecting incoming frames on the link, otherwise false

Context interface name *string* lag member name *reference* lacp collecting *boolean*

Tree collecting

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distributing *boolean*

Description When true, the participant is distributing outgoing frames; when false, distribution is disabled

Context interface name *string* lag member name *reference* lacp distributing *boolean*

Tree distributing

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-partner-port-priority *number*

Description The partner port priority for LACP. This value is used to determine which port should be activated based on partner port priority value. Lower values are more preferred.

Context interface name *string* lag member name *reference* lacp lacp-partner-port-priority *number*

Tree lacp-partner-port-priority

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lacp-port-priority *number*

Description	Configure the port priority for LACP. This value is used to determine which port should be activated with LACP fallback mode. Lower values are more preferred.
Context	interface name *string* lag member name *reference* lacp lacp-port-priority *number*
Tree	lacp-port-priority
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-key *number*

Description	Current operational value of the key for the aggregate interface
Context	interface name *string* lag member name *reference* lacp oper-key *number*
Tree	oper-key
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

partner-id *string*

Description	MAC address representing the protocol partner's interface system ID
Context	interface name *string* lag member name *reference* lacp partner-id *string*
Tree	partner-id
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

partner-key *number*

Description Operational value of the protocol partner's key

Context interface name *string* lag member name *reference* lacp partner-key *number*

Tree partner-key

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

partner-port-num *number*

Description Port number of the partner (remote) port for this member port

Context interface name *string* lag member name *reference* lacp partner-port-num *number*

Tree partner-port-num

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-num *number*

Description Port number of the local (actor) aggregation member

Context interface name *string* lag member name *reference* lacp port-num *number*

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Tree port-num

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

LACP protocol counters

Context interface name *string* lag member name *reference* lacp statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-errors *number*

Description Number of LACPDU illegal packet errors

Context interface name *string* lag member name *reference* lacp statistics lacp-errors *number*

Tree lacp-errors

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-in-pkts *number*

Description Number of LACPDUs received

Context interface name *string* lag member name *reference* lacp statistics lacp-in-pkts *number*

Tree lacp-in-pkts

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-out-pkts *number*

Description Number of LACPDUs transmitted

Context interface name *string* lag member name *reference* lacp statistics lacp-out-pkts *number*

Tree lacp-out-pkts

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-rx-errors *number*

Description Number of LACPDU receive packet errors

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Context	interface name *string* lag member name *reference* lacp statistics lacp-rx-errors *number*
Tree	lacp-rx-errors
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-tx-errors *number*

Description	Number of LACPDU transmit packet errors
Context	interface name *string* lag member name *reference* lacp statistics lacp-tx-errors *number*
Tree	lacp-tx-errors
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lacp-unknown-errors *number*

Description	Number of LACPDU unknown packet errors
Context	interface name *string* lag member name *reference* lacp statistics lacp-unknown-errors *number*
Tree	lacp-unknown-errors
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

synchronization *keyword*

Description Indicates whether the participant is in-sync or out-of-sync

Context interface name *string* lag member name *reference* lacp synchronization *keyword*

Tree synchronization

Options

- IN_SYNC

  Participant is in sync with the system id and key transmitted

- OUT_SYNC

  Participant is not in sync with the system id and key transmitted

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description MAC address that defines the local system ID for the aggregate interface

Context interface name *string* lag member name *reference* lacp system-id *string*

Tree system-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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timeout *keyword*

Description The timeout type (short or long) used by the participant

Context interface name *string* lag member name *reference* lacp timeout *keyword*

Tree timeout

Options

- LONG

  Participant wishes to use long timeouts to detect status of the aggregate, i.e., will expect less frequent transmissions. Long timeout is 90 seconds.

- SHORT

  Participant wishes to use short timeouts, i.e., expects frequent transmissions to aggressively detect status changes. Short timeout is 3 seconds.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description The date and time of the most recent change to the LAG member-link state

Context interface name *string* lag member name *reference* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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microbfd-enabled *boolean*

Description	Indicates if microBFD is currently used in the determination of the member-link oper-status
Context	interface name *string* lag member name *reference* microbfd-enabled *boolean*
Tree	microbfd-enabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	Reason for operational down state for the associated LAG
Context	interface name *string* lag member name *reference* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• port-disabled • port-oper-disabled • lag-admin-disabled • lacp-down • microBFD-down • lag-min-link-threshold • lag-speed-mismatch • other
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Operational state for the associated LAG

Context interface name *string* lag member name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-speed *keyword*

Description Specifies the link speed of allowed member-links

Context interface name *string* lag member-speed *keyword*

Tree member-speed

Options

- 10M

  Indicates the the LAG member-links must be 10M to be active
- 100M

  Indicates the the LAG member-links must be 100M to be active
- 1G

  Indicates the the LAG member-links must be 1G to be active
- 10G

  Indicates the the LAG member-links must be 10G to be active
- 25G

  Indicates the the LAG member-links must be 25G to be active
- 40G

  Indicates the the LAG member-links must be 40G to be active
- 50G

  Indicates the the LAG member-links must be 50G to be active
- 100G

  Indicates the the LAG member-links must be 100G to be active
- 200G

  Indicates the the LAG member-links must be 200G to be active
- 400G

  Indicates the the LAG member-links must be 400G to be active
- 800G

  Indicates the the LAG member-links must be 800G to be active
- 2.5G

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Indicates the the LAG member-links must be 2.5G to be active

- 5G

  Indicates the the LAG member-links must be 5G to be active

- 1T

  Indicates the the LAG member-links must be 1T to be active

- 1.6T

  Indicates the the LAG member-links must be 1.6T to be active

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-links *number*

Description Specifies the mininum number of member interfaces that must be active for the aggregate interface to be available

Context interface name *string* lag min-links *number*

Tree min-links

Range 1 to 64

Default 1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description The date and time of the most recent change to the interface state

Context interface name *string* last-change *string*

Tree last-change

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

linecard *reference*

Description	The linecard on which this interface resides This field is not populated for non-forwarding-complex-attached interfaces, for example mgmt0.
Context	interface name *string* linecard *reference*
Tree	linecard
Reference	platform linecard slot *number*
Configurable	False
Platforms	Supported on all platforms

linux

Description	Enter the linux context Top-level container for configuration and state related to Linux interfaces
Context	interface name *string* linux
Tree	linux
Configurable	True
Platforms	vsrl and future-0-0

device-name *string*

Description	Slow path device name of this interface in Linux This is the interface name that can be used to look at this interface within Linux. If not specified it is auto-derived by the system.
Context	interface name *string* linux device-name *string*
Tree	device-name
String Length	0 to 10
Configurable	True
Platforms	vsrl and future-0-0

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load-balancing

Description	Enter the load-balancing context Configure load-balancing options specific to the interface
Context	interface name *string* load-balancing
Tree	load-balancing
Configurable	True
Platforms	Supported on all platforms except PORT

hash-profile *reference*

Description	Reference to a configured hash-profile If an Ethernet port associated with a J3 ASIC does not specify a hash-profile then a per-port hash-seed is randomly generated.
Context	interface name *string* load-balancing hash-profile *reference*
Tree	hash-profile
Reference	system load-balancing hash-profile name *string*
Configurable	True
Platforms	Supported on 7250 IXR-6e/10e/18e platforms

hash-seed *number*

Description	Load-balancing hash seed used for incoming traffic on the port
Context	interface name *string* load-balancing hash-seed *number*
Tree	hash-seed
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-dynamic-load-balancing-quality-metrics *number*

Description	Last retrieved quality metric used for dynamic load-balancing purposes
Context	interface name *string* load-balancing last-dynamic-load-balancing-quality-metrics *number*
Tree	last-dynamic-load-balancing-quality-metrics

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Range	0 to 7
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

mtu *number*

Description	Port MTU in bytes including ethernet overhead but excluding 4-bytes FCS If a transmitted packet exceeds this size it is dropped. The default value for ethernet-x interfaces is taken from /system/mtu/default-port-mtu. For the mgmt0 and mgmt0-standby interfaces the default is 1514 bytes, but the value can be changed for each interface individually. For the mgmtA and mgmtB interfaces the default value is derived from mgmt0 or mgmt0-standby configuration. Port MTU is not configurable for loopback interfaces or irb interfaces. For irb interfaces, if the size of the ip packets to be routed to a mac-vrf has to be restricted, the subinterface.ip-mtu should be configured instead. The max mtu for the mgmt0, mgmt0-standby, mgmtA and mgmtB interfaces is 9216. The 7220 IXR systems support a maximum port MTU of 9412 bytes and minimum of 1500 bytes. The VSRL system supports a maximum port MTU of 9500 and minimum of 1450 bytes. All systems support a maximum port MTU of 9500 and minimum of 1500 bytes. Each 7250 IXR IMM supports a maximum of 8 different port MTU values. 7220 IXR systems do not have any limit on the maximum number of different port MTU values.
Context	interface name *string* mtu *number*
Tree	mtu
Range	1450 to 9500
Units	bytes
Configurable	True
Platforms	Supported on all platforms

num-physical-channels *number*

Description	Sets the number of lanes or physical channels assigned to this interface or to the set of interfaces within this breakout group This leaf can be used to distinguish between transceivers that provide the same port-speed or breakout-configuration but using different PMAs. For example, if a port supports two transceivers providing 100G optical signal but one uses CAUI4 and the other uses 100GAUI-2, then this leaf can be set to 4 for the CAUI4 transceiver and 2 for the 100GAUI-2 transceiver. Similarly, a transceiver that provides a breakout of 4 ports of 100G using 4 x 100GAUI2 would set this leaf to 8 but a transceiver using 4 x 100GAUI-1 would have this leaf set to 4. An 800G transceiver that provides a breakout of 1 port of

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400G using 1x400GAUI-8 would set this leaf to 8 or if using 1x400GAUI-4 would set this leaf to 4.

If not set, then the default shall be as follows: 1 is used for 10G, 25G 2 is used for 50G 4 is used for 40G, 100G, 200G, 4x10G, 2x50G, 4x25G, 1x100G 6 is used for 3x100G (digital coherent optics) 8 is used for 400G, 800G, 2x100G, 8x50G, 1x400G, 4x100G, 2x400G

If num-physical-channels has been configured within the breakout group, it cannot be configured at the interface level.

Context interface name *string* num-physical-channels *number*

Tree num-physical-channels

Range 1 to 8

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The first (and possibly only) reason for the port being operationally down

Context interface name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- port-admin-disabled
- mda-admin-disabled
- transceiver-oper-down
- port-not-present
- mda-not-present
- phy-initializing
- lower-layer-down
- auto-negotiation-mismatch
- port-mtu-resource-exceeded
- unsupported-speed
- unsupported-fec
- other
- fabric-availability
- no-active-links
- min-link-threshold

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- port-9-12-speed-mismatch
- lag-resource-exceeded
- lag-member-resource-exceeded
- standby-signaling
- interface-hold-time-up-active
- interface-reload-timer-active
- connector-down
- event-handler
- unsupported-breakout-port
- cfm-ccm-defect
- crc-monitor-fail-threshold
- symbol-monitor-fail-threshold
- link-loss-forwarding
- storm-control-action
- unsupported-num-channels-for-speed
- loop-detected
- interface-epd-suppressed
- lag-admin-disabled
- cfm-link-loss-forwarding

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of the interface

Context interface name *string* oper-state *keyword*

Tree oper-state

Options

- up
- down
- testing

Configurable False

Platforms Supported on all platforms

p4rt

Description Top-level container for P4Runtime interface configuration and state

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Context	interface name *string* p4rt
Tree	p4rt
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description	The numeric identifier used by the controller to address the interface This ID is the interface ifIndex by default, or is assigned by an external-to-the-device entity (e.g., an SDN management system) to establish an externally deterministic numeric reference for the interface. The programming entity must ensure that the ID is unique within the required context. Note that this identifier is used only when a numeric reference to the interface is required, it does not replace the unique name assigned to the interface.
Context	interface name *string* p4rt id *number*
Tree	id
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-id *number*

Description	The numeric ID used by the controller to address the ASIC this interface resides on This is the ID configured at /platform/linecard/forwarding-complex/p4rt/id. This ID may be referred to as a 'device', 'node' or 'target' by the P4RT specification. Each switching ASIC (i.e., node) is addressed by the external entity based on its numeric identifier.
Context	interface name *string* p4rt parent-id *number*
Tree	parent-id
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-link-qualification

Description	Enter the packet-link-qualification context gNOI Packet Link Qualification results
Context	interface name *string* packet-link-qualification
Tree	packet-link-qualification
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

result id *string*

Description	Enter the result list instance
Context	interface name *string* packet-link-qualification result id *string*
Tree	result
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description	Packet link qualification test ID
Context	interface name *string* packet-link-qualification result id *string*
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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end-time *string*

Description End time of the test

Context interface name *string* packet-link-qualification result id *string* end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expected-rate *number*

Description Expected rate of the test

This is the computed or observed rate that the service expected to be maintained throughout the qualification duration.

Context interface name *string* packet-link-qualification result id *string* expected-rate *number*

Tree expected-rate

Units bytes per second

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description State of the qualification test

Context interface name *string* packet-link-qualification result id *string* oper-state *keyword*

Tree oper-state

Options

- unspecified

  Unspecified state of the qualification

- error

  The qualification has errored

- idle

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Initial state for the qualification

- setup

  Interface is being configured

- running

  Qualification underway

- teardown

  Interface is being reset

- completed

  Qualification is complete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-dropped *number*

Description Number of packets dropped

Context interface name *string* packet-link-qualification result id *string* packets-dropped *number*

Tree packets-dropped

Units packets

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-error *number*

Description Number of packets transmitted that experienced corruption

Context interface name *string* packet-link-qualification result id *string* packets-error *number*

Tree packets-error

Units packets

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-received *number*

Description	Number of packets received
Context	interface name *string* packet-link-qualification result id *string* packets-received *number*
Tree	packets-received
Units	packets
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-sent *number*

Description	Number of packets sent
Context	interface name *string* packet-link-qualification result id *string* packets-sent *number*
Tree	packets-sent
Units	packets
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

qualification-rate *number*

Description	Observed rate of the test This is the computed or observed rate that the service expected to be maintained throughout the qualification duration.
Context	interface name *string* packet-link-qualification result id *string* qualification-rate *number*
Tree	qualification-rate
Units	bytes per second
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Start time of the test

Context interface name *string* packet-link-qualification result id *string* start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Status of the test

Only set when the test is in the error state.

Context interface name *string* packet-link-qualification result id *string* status *keyword*

Tree status

Options

- not-found

  Request ID not found
- invalid-argument

  Unsupported configuration parameter
- canceled

  Test was canceled
- deadline-exceeded

  A test stage took too long to complete
- failed-precondition

  A test stage was not setup properly
- internal

  A test stage had unexpected serious errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status-message *string*

Description Status message of the test

Only set when the test is in the error state.

Context interface name *string* packet-link-qualification result id *string* status-message *string*

Tree status-message

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pci

Description Enter the pci context

Top-level container for state related to PCI interfaces

Context interface name *string* pci

Tree pci

Configurable False

Platforms vsrl and future-0-0

address *string*

Description PCI address of the interface, unpopulated if interface is not present on PCI

Unpopulated if interface is not available for PCI passthrough. This format follows the extended Domain:Bus:Device.Function (or BDF) notation. In most cases domain will be padded with four 0000's.

Context interface name *string* pci address *string*

Tree address

Configurable False

Platforms vsrl and future-0-0

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device-id *string*

Description	PCI device ID This field is the two byte device ID reported over PCI.
Context	interface name *string* pci device-id *string*
Tree	device-id
Configurable	False
Platforms	vsrl and future-0-0

device-name *string*

Description	PCI device name
Context	interface name *string* pci device-name *string*
Tree	device-name
Configurable	False
Platforms	vsrl and future-0-0

socket-cpus *number*

Description	List of CPUs present on the socket this interface is attached to
Context	interface name *string* pci socket-cpus *number*
Tree	socket-cpus
Configurable	False
Platforms	vsrl and future-0-0

socket-id *number*

Description	Socket this interface is physically or logically attached to This field is not populated for interfaces that have no socket preference - e.g. veth, tap.
Context	interface name *string* pci socket-id *number*
Tree	socket-id
Configurable	False
Platforms	vsrl and future-0-0

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subsystem

Description	Enter the subsystem context Top-level container for PCI subsystem state
Context	interface name *string* pci subsystem
Tree	subsystem
Configurable	False
Platforms	vsrl and future-0-0

device-id *string*

Description	PCI device ID This field is the two byte device ID reported over PCI.
Context	interface name *string* pci subsystem device-id *string*
Tree	device-id
Configurable	False
Platforms	vsrl and future-0-0

device-name *string*

Description	PCI device name
Context	interface name *string* pci subsystem device-name *string*
Tree	device-name
Configurable	False
Platforms	vsrl and future-0-0

vendor-id *string*

Description	PCI device vendor ID This field is the two byte vendor ID reported over PCI.
Context	interface name *string* pci subsystem vendor-id *string*
Tree	vendor-id
Configurable	False
Platforms	vsrl and future-0-0

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vendor-name *string*

Description	PCI device vendor
Context	interface name *string* pci subsystem vendor-name *string*
Tree	vendor-name
Configurable	False
Platforms	vsrl and future-0-0

vendor-id *string*

Description	PCI device vendor ID This field is the two byte vendor ID reported over PCI.
Context	interface name *string* pci vendor-id *string*
Tree	vendor-id
Configurable	False
Platforms	vsrl and future-0-0

vendor-name *string*

Description	PCI device vendor
Context	interface name *string* pci vendor-name *string*
Tree	vendor-name
Configurable	False
Platforms	vsrl and future-0-0

phy-group-members *string*

Description	The group of interfaces sharing a phy with this interface On the 7220 IXR-D2 and 7220 IXR-D2L platforms this group of interfaces must be set to the same speed, either 1/10G or 25G.
Context	interface name *string* phy-group-members *string*
Tree	phy-group-members
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7250 IXR-X1B

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physical-channel *reference*

Description	The list of transceiver channels associated with this port
Context	interface name *string* physical-channel *reference*
Tree	physical-channel
Reference	interface name *string* transceiver channel index *number*
Configurable	False
Platforms	Supported on all platforms

resource

Description	Enter the resource context Operational state and commands related to interface system resources
Context	interface name *string* resource
Tree	resource
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sflow

Description	Context to configure sFlow parameters
Context	interface name *string* sflow
Tree	sflow
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Administratively enable or disable sFlow on this interface

Context interface name *string* sflow admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-sampling-rate *number*

Description Specify sFlow Egress packet sample rate. This value is the rate at which traffic will be sampled at a rate of 1:N received packets.

Context interface name *string* sflow egress-sampling-rate *number*

Tree egress-sampling-rate

Range 0 to 2000000

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-sampling-rate *number*

Description Specify sFlow Ingress packet sample rate. This value is the rate at which traffic will be sampled at a rate of 1:N received packets.

Context interface name *string* sflow ingress-sampling-rate *number*

Tree ingress-sampling-rate

Range 0 to 2000000

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description	Enter the statistics context
Context	interface name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

carrier-transitions *number*

Description	Number of times the interface state has transitioned from down to up. This is reset to zero when the device is started or reset or the counters are cleared.
Context	interface name *string* statistics carrier-transitions *number*
Tree	carrier-transitions
Default	0
Configurable	False
Platforms	Supported on all platforms

in-broadcast-packets *number*

Description	Corresponds to ifHCInBroadcastPkts from the IF-MIB
Context	interface name *string* statistics in-broadcast-packets *number*
Tree	in-broadcast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-discarded-packets *number*

Description	Corresponds to ifInDiscards from the IFMIB This counts the number of IP packets discarded due to ingress port oversubscription, VLAN mismatch, unknown dest MAC etc.
Context	interface name *string* statistics in-discarded-packets *number*
Tree	in-discarded-packets
Default	0

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Configurable	False
Platforms	Supported on all platforms

in-error-packets *number*

Description	Corresponds to ifInErrors from the IF-MIB
Context	interface name *string* statistics in-error-packets *number*
Tree	in-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-fcs-error-packets *number*

Description	Ingress FCS errors
Context	interface name *string* statistics in-fcs-error-packets *number*
Tree	in-fcs-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-multicast-packets *number*

Description	Corresponds to ifHCInMulticastPkts from the IF-MIB
Context	interface name *string* statistics in-multicast-packets *number*
Tree	in-multicast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-octets *number*

Description	Corresponds to ifHCInOctets from the IFMIB
Context	interface name *string* statistics in-octets *number*
Tree	in-octets
Default	0

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Configurable	False
Platforms	Supported on all platforms

in-packets *number*

Description	Sum of all received packets, independent of protocol and forwarding type and before discards and errors
Context	interface name *string* statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-unicast-packets *number*

Description	Corresponds to ifHCInUcastPkts from the IF-MIB
Context	interface name *string* statistics in-unicast-packets *number*
Tree	in-unicast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

interface-transitions *number*

Description	Number of times the interface state has either transitioned to up from any other state, or from up to any other state. This is reset to zero when the device is started or reset or the counters are cleared.
Context	interface name *string* statistics interface-transitions *number*
Tree	interface-transitions
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the interface counters were cleared
Context	interface name *string* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

link-transitions *number*

Description	Number of times the underlying link state has transitioned to or from up before any holdtime This is reset to zero when the device is started or reset or the counters are cleared.
Context	interface name *string* statistics link-transitions *number*
Tree	link-transitions
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-broadcast-packets *number*

Description	Corresponds to ifHCOutBroadcastPkts from the IF-MIB
Context	interface name *string* statistics out-broadcast-packets *number*
Tree	out-broadcast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

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out-discarded-packets *number*

Description	Corresponds to ifOutDiscards from the IF-MIB. On 7250 IXR-6/10 systems this counts packets dropped by an egress IP ACL of any of the port's subinterfaces.
Context	interface name *string* statistics out-discarded-packets *number*
Tree	out-discarded-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-error-packets *number*

Description	Corresponds to ifOutErrors from the IF-MIB
Context	interface name *string* statistics out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-mirror-octets *number*

Description	This counts the number of outgoing mirrored octets
Context	interface name *string* statistics out-mirror-octets *number*
Tree	out-mirror-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-mirror-packets *number*

Description	This counts the number of outgoing mirrored packets
Context	interface name *string* statistics out-mirror-packets *number*
Tree	out-mirror-packets
Default	0
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-multicast-packets *number*

Description	Corresponds to ifHCOutMulticastPkts from the IF-MIB
Context	interface name *string* statistics out-multicast-packets *number*
Tree	out-multicast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-octets *number*

Description	Corresponds to ifHCOutOctets from the IF-MIB
Context	interface name *string* statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-packets *number*

Description	Sum of all transmitted packets, independent of protocol and forwarding type and before discards and errors
Context	interface name *string* statistics out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-unicast-packets *number*

Description	Corresponds to ifHCOutUcastPkts from the IF-MIB
Context	interface name *string* statistics out-unicast-packets *number*
Tree	out-unicast-packets
Default	0

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Configurable	False
Platforms	Supported on all platforms

subinterface index *number*

Description	The list of subinterfaces (logical interfaces) associated with a physical interface
Context	interface name *string* subinterface index *number*
Tree	subinterface
Configurable	True
Platforms	Supported on all platforms
Max. Elements	4095

index *number*

Description	The index of the subinterface, or logical interface number
Context	interface name *string* subinterface index *number*
Range	0 to 9999 | 131072 to 655359
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	The configured, desired state of the subinterface
Context	interface name *string* subinterface index *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

anycast-gw

Description	Enable the anycast-gw context
Context	interface name *string* subinterface index *number* anycast-gw

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Tree anycast-gw

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anycast-gw-mac *string*

Description The MAC address of associated to the anycast-gw IP address.

If the anycast-gw MAC address is not configured, it will be auto-derived from the virtual-router-id value as per draft-ietf-bess-evpn-inter-subnet-forwarding following the format 00:00:5E:00:01:VRID.

Context interface name *string* subinterface index *number* anycast-gw anycast-gw-mac *string*

Tree anycast-gw-mac

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anycast-gw-mac-origin *keyword*

Description Origin of the active anycast-gateway MAC address.

If not configured, the anycast-gateway-mac will be auto-derived out of 00:00:5E:00:01:VRID, where VRID is the Virtual Router Identifier of the subinterface anycast-gw.

Context interface name *string* subinterface index *number* anycast-gw anycast-gw-mac-origin *keyword*

Tree anycast-gw-mac-origin

Options

- configured
- vrid-auto-derived

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220

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IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-router-id *number*

Description The Virtual Router Identifier (VRID) value used to auto-derive the anycast-gw-mac in the format 00:00:5E:00:01:VRID.

Context interface name *string* subinterface index *number* anycast-gw virtual-router-id *number*

Tree virtual-router-id

Range 1 to 255

Default 1

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description Enable the Bridge Table on the subinterface and configure associated parameters

Context interface name *string* subinterface index *number* bridge-table

Tree bridge-table

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcpv4-snoop

Description Container for options related to DHCPv4-Snoop

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop

Tree dhcpv4-snoop

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enables/Disables DHCPv4 Snooping function on subinterface
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason causing the DHCP snoop to go into operational down state
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop oper-down-reason *keyword*
Tree	oper-down-reason
Options	• dhcp-snoop-admin-down • sub-interface-oper-down
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description The operational state of the DHCP snoop

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

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This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

option *keyword*

Description List of option82 suboptions to insert into Snooped packet towards DHCPv4 server

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop option *keyword*

Tree option

Options

- circuit-id

  Enable option 82 suboption 1 circuit-id into Snooped packet towards DHCPv4 server, format=system_name/VRF_instance/sub-interface_id:vlan_id

- remote-id

  Enable option 82 suboption 2 remote-id into Snooped packet towards DHCPv4 server, format=client MAC address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics

Tree statistics

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description	Total discarded DHCP packets from dhcp client(s) towards DHCP server(s)
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics client-packets-discarded *number*
Tree	client-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description	Total received DHCP packets from dhcp client(s) for DHCP Snoop
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics client-packets-received *number*
Tree	client-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-snooped *number*

Description	Total snooped DHCP packets from dhcp client(s) towards DHCP server(s)

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Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics client-packets-snooped *number*
Tree	client-packets-snooped
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-discarded *number*

Description	Total discarded DHCP packets from DHCP server(s) towards dhcp client(s)
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics server-packets-discarded *number*
Tree	server-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-received *number*

Description	Total received DHCP packets from DHCP server(s) for DHCP Snoop
Context	interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics server-packets-received *number*
Tree	server-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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server-packets-snooped *number*

Description Total snooped DHCP packets from DHCP server(s) towards dhcp client(s)

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop statistics server-packets-snooped *number*

Tree server-packets-snooped

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Container for tracing DHCPv4 Snoop operations on the subinterface

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* bridge-table dhcpv4-snoop trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv4 messages sent and received by the subinterface

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcpv6-snoop

Description Container for options related to DHCPv6-Snoop

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop

Tree dhcpv6-snoop

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enables/Disables DHCPv6 Snooping function on subinterface

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason causing the DHCP snoop to go into operational down state

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Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop oper-down-reason *keyword*

Tree oper-down-reason

Options
- dhcp-snoop-admin-down
- sub-interface-oper-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the DHCP snoop

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop oper-state *keyword*

Tree oper-state

Options
- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

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Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

option *keyword*

Description List of options to insert into snooped packet towards DHCPv6 server

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop option *keyword*

Tree option

Options

- interface-id

  Enable option 18 Interface-Id into snooped packet towards DHCPv6 server, format=system_name/VRF_instance/sub-interface_id:vlan_id

- remote-id

  Enable option 37 Remote Identifier into snooped packet towards DHCPv6 server, format=client MAC address

- client-link-layer-address

  Enable option 79 Client Link-Layer Address into snooped packet towards DHCPv6 server, format based on rfc-6939

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description Total discarded DHCP packets from dhcp client(s) towards DHCP server(s)

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics client-packets-discarded *number*

Tree client-packets-discarded

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description Total received DHCP packets from dhcp client(s) for DHCP Snoop

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics client-packets-received *number*

Tree client-packets-received

Default 0

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-snooped *number*

Description	Total snooped DHCP packets from dhcp client(s) towards DHCP server(s)
Context	interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics client-packets-snooped *number*
Tree	client-packets-snooped
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-discarded *number*

Description	Total discarded DHCP packets from DHCP server(s) towards dhcp client(s)
Context	interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics server-packets-discarded *number*
Tree	server-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-received *number*

Description	Total received DHCP packets from DHCP server(s) for DHCP Snoop

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Context	interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics server-packets-received *number*
Tree	server-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-snooped *number*

Description	Total snooped DHCP packets from DHCP server(s) towards dhcp client(s)
Context	interface name *string* subinterface index *number* bridge-table dhcpv6-snoop statistics server-packets-snooped *number*
Tree	server-packets-snooped
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context Container for tracing DHCPv6 Snoop operations on the subinterface
Context	interface name *string* subinterface index *number* bridge-table dhcpv6-snoop trace-options
Tree	trace-options
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* bridge-table dhcpv6-snoop trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv6 messages sent and received by the subinterface

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-unknown-src-mac *boolean*

Description Discard frames with unknown source mac addresses. The source mac address of the discarded frame is never learned when this command is enabled.

Context interface name *string* subinterface index *number* bridge-table discard-unknown-src-mac *boolean*

Tree discard-unknown-src-mac

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-duplication

Description Enter the mac-duplication context

Context interface name *string* subinterface index *number* bridge-table mac-duplication

Tree mac-duplication

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action *keyword*

Description Action to take on the subinterface upon detecting at least one mac addresses as duplicate on the subinterface. In particular:

Context interface name *string* subinterface index *number* bridge-table mac-duplication action *keyword*

Tree action

Default use-net-instance-action

Options

- use-net-instance-action
- stop-learning
- blackhole
- oper-down

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description Enter the duplicate-entries context

Context interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries

Tree duplicate-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac address *string*

Description	macs duplicate on the bridging instance
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string*
Tree	mac
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dup-detect-time *string*

Description	The date and time when the mac was declared duplicate
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string* dup-detect-time *string*
Tree	dup-detect-time
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hold-down-time-remaining *(keyword | number)*

Description remaining hold down time for duplicate mac

Context interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string* hold-down-time-remaining *(keyword | number)*

Tree hold-down-time-remaining

Units seconds

Options

- indefinite

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-learning

Description Enter the mac-learning context

Context interface name *string* subinterface index *number* bridge-table mac-learning

Tree mac-learning

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the learning procedures for dynamic mac addresses. If disabled, the existing macs in the bridge-table will be kept (and refreshed if new frames arrive for them) but no new mac addresses will be learned. Frames with unknown mac addresses are not dropped, unless discard-unknown-src-mac is configured.

Context interface name *string* subinterface index *number* bridge-table mac-learning admin-state *keyword*

Tree admin-state

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Default enable

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging

Description Enter the aging context

Context interface name *string* subinterface index *number* bridge-table mac-learning aging

Tree aging

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the aging for the dynamic mac entries in the bridge table. If disabled, dynamically learned mac entries will be programmed in the bridge table until the network instance is disabled.

Context interface name *string* subinterface index *number* bridge-table mac-learning aging admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

learnt-entries

Description Enter the learnt-entries context

Context interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries

Tree learnt-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string*

Tree mac

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging *(number | keyword)*

Description remaining age time for learnt macs

Context interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string* aging *(number | keyword)*

Tree aging

Units seconds

Options
- disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this learnt mac

Context interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-limit

Description Enter the mac-limit context

Bridge Table size and thresholds.

Context interface name *string* subinterface index *number* bridge-table mac-limit

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Tree	mac-limit
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description	Maximum number of mac addresses allowed in the bridge-table.
Context	interface name *string* subinterface index *number* bridge-table mac-limit maximum-entries *number*
Tree	maximum-entries
Range	1 to 8192
Default	250
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	Percentage of the configured max-number-macs over which a warning is triggered. The warning message is cleared when the percentage drops below the configured percentage minus 5%
Context	interface name *string* subinterface index *number* bridge-table mac-limit warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	6 to 100
Default	95
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description Enter the mac-table context

Context interface name *string* subinterface index *number* bridge-table mac-table

Tree mac-table

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string*

Tree mac

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description The list of slot IDs corresponding to the linecards that did not successfully program the mac

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string* failed-slots *number*

Tree failed-slots

Range 1 to 18

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this mac

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the mac is not programmed

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

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Options
- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description the type of the mac installed in the fib.

Context interface name *string* subinterface index *number* bridge-table mac-table mac address *string* type *keyword*

Tree type

Options
- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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managed-stp

Description	Enter the managed-stp context
Context	interface name *string* subinterface index *number* bridge-table managed-stp
Tree	managed-stp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-transitions *number*

Description	The number of times this port has transitioned from the Learning state to the Forwarding state
Context	interface name *string* subinterface index *number* bridge-table managed-stp forward-transitions *number*
Tree	forward-transitions
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mgmt-stp-interface *string*

Description	Management-Stp interface managing the state of this interface
Context	interface name *string* subinterface index *number* bridge-table managed-stp mgmt-stp-interface *string*
Tree	mgmt-stp-interface
String Length	3 to 22
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mgmt-stp-msti *number*

Description Management-Stp MSTI managing the state of this interface

Context interface name *string* subinterface index *number* bridge-table managed-stp mgmt-stp-msti *number*

Tree mgmt-stp-msti

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mgmt-stp-name *string*

Description Management-Stp Name managing the state of this interface

Context interface name *string* subinterface index *number* bridge-table managed-stp mgmt-stp-name *string*

Tree mgmt-stp-name

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-state *identityref*

Description Interface Stp Port state

Context interface name *string* subinterface index *number* bridge-table managed-stp port-state *identityref*

Tree port-state

Options

- LISTENING

  Listening port indicates port that is processing BPDUs and building active toplogy

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- LEARNING

  Learning port indicates port that is building bridging tables; no forwarding of data
- BLOCKING

  Blocking port indicates port that would cause a loop if it were sending data. It only receivs BPDUs, until a topology change removes the possibliity of a loop
- FORWARDING

  Forwarding port indicates port that is operating normally, sending and receiving data
- DISCARDING

  Discarding port indicates port that is receiving and discarding data
- DISABLED

  Disabled Port is the port that is isolated from network, either administratively down or failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* bridge-table statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries that are active on the sub-interface.

Context interface name *string* subinterface index *number* bridge-table statistics active-entries *number*

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Tree	active-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	interface name *string* subinterface index *number* bridge-table statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	the type of the mac on the sub-interface.
Context	interface name *string* subinterface index *number* bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *keyword*

Description Enter the type context

Context interface name *string* subinterface index *number* bridge-table statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context interface name *string* subinterface index *number* bridge-table statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-entries *number*

Description	The total number of macs of this type, which have not been programmed on atleast one slot
Context	interface name *string* subinterface index *number* bridge-table statistics mac-type type *keyword* failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs of this type , active and inactive, on the sub-interface.
Context	interface name *string* subinterface index *number* bridge-table statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface.
Context	interface name *string* subinterface index *number* bridge-table statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stp

Description Configuration and state of the STP protocol

Context interface name *string* subinterface index *number* bridge-table stp

Tree stp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the STP protocol for interface

When STP on the network instance is administratively disabled, any BPDUs are forwarded transparently. When STP on the network instance is administratively enabled, but the administrative state on a sub-interface is disabled, BPDUs received on such a subinterface are discarded.

Context interface name *string* subinterface index *number* bridge-table stp admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bpdu-guard *boolean*

Description	Enable edge port BPDU guard
Context	interface name *string* subinterface index *number* bridge-table stp bpdu-guard *boolean*
Tree	bpdu-guard
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bpdu-guard-error *boolean*

Description	Displays True when the interface is operationally down due to stp bpdu guard error
Context	interface name *string* subinterface index *number* bridge-table stp bpdu-guard-error *boolean*
Tree	bpdu-guard-error
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bpdu-guard-recovery-time-expires *(number | date-and-time-delta)*

Description	The remaining time until the bpdu-guard-down-time expires and the error is cleared on the interface
Context	interface name *string* subinterface index *number* bridge-table stp bpdu-guard-recovery-time-expires *(number | date-and-time-delta)*
Tree	bpdu-guard-recovery-time-expires
String Length	20 to 32
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-bridge *string*

Description	The bridge identifier of the designated bridge The bridge identifer of the bridge recorded as the root in the configuration BPDUs transmitted by the designated bridge for the segment to which the port is attached. format: bridge-priority.extended-system-id.mac-address
Context	interface name *string* subinterface index *number* bridge-table stp designated-bridge *string*
Tree	designated-bridge
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-port *number*

Description	The identifier of the port on the designated bridge
Context	interface name *string* subinterface index *number* bridge-table stp designated-port *number*
Tree	designated-port
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-port-num *number*

Description	The Port number of the port on the Designated Bridge for this port's segment

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Context	interface name *string* subinterface index *number* bridge-table stp designated-port-num *number*
Tree	designated-port-num
Range	0 to 4094
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-port-priority *number*

Description	The Port priority of the port on the Designated Bridge for this port's segment
Context	interface name *string* subinterface index *number* bridge-table stp designated-port-priority *number*
Tree	designated-port-priority
Range	0 to 255
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

edge-port *identityref*

Description	Enter the edge-port context
Context	interface name *string* subinterface index *number* bridge-table stp edge-port *identityref*
Tree	edge-port
Default	EDGE_AUTO
Options	• EDGE_ENABLE Enable edge port for the bridge port • EDGE_DISABLE Disable edge port for the bridge port • EDGE_AUTO

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Auto detect edge port for the bridge port

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-transitions *number*

Description The number of times this port has transitioned from the Learning state to the Forwarding state

Context interface name *string* subinterface index *number* bridge-table stp forward-transitions *number*

Tree forward-transitions

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

guard *keyword*

Description Enable Guard

Context interface name *string* subinterface index *number* bridge-table stp guard *keyword*

Tree guard

Default NONE

Options

- ROOT

  Enable root guard

- NONE

  Disable guard

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-type *keyword*

Description Indicates the number of bridges behind the subinterface

Context interface name *string* subinterface index *number* bridge-table stp link-type *keyword*

Tree link-type

Default P2P

Options

- P2P

  Point-to-Point link

- SHARED

  Shared link

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-bpdu-encap *keyword*

Description The operating encsapsulation type used on BPDUs sent and received on this interface

Context interface name *string* subinterface index *number* bridge-table stp oper-bpdu-encap *keyword*

Tree oper-bpdu-encap

Options

- dot1d
- pvst

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-edge *identityref*

Description The protocol running on this interface

Context interface name *string* subinterface index *number* bridge-table stp oper-edge *identityref*

Tree oper-edge

Options

- EDGE_ENABLE

  Enable edge port for the bridge port

- EDGE_DISABLE

  Disable edge port for the bridge port

- EDGE_AUTO

  Auto detect edge port for the bridge port

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-port-priority *number*

Description Interface Stp operational Port Priority

Context interface name *string* subinterface index *number* bridge-table stp oper-port-priority *number*

Tree oper-port-priority

Range 0 to 255

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-protocol *keyword*

Description The protocol running on this interface

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Context interface name *string* subinterface index *number* bridge-table stp oper-protocol *keyword*

Tree oper-protocol

Options
- stp
- rstp
- mstp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Stp Operational status

Context interface name *string* subinterface index *number* bridge-table stp oper-state *keyword*

Tree oper-state

Options
- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded

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- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-cost *number*

Description The interface path-cost is used by STP to calculate the path cost to the root bridge

Context interface name *string* subinterface index *number* bridge-table stp path-cost *number*

Tree path-cost

Range 1 to 200000000

Default 10

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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port-num *number*

Description Interface Stp Port Number

Context interface name *string* subinterface index *number* bridge-table stp port-num *number*

Tree port-num

Range 0 to 4094

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-number *number*

Description Port Number associated with this interface

Context interface name *string* subinterface index *number* bridge-table stp port-number *number*

Tree port-number

Range 1 to 2047

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-role *identityref*

Description Interface Stp Port role

Context interface name *string* subinterface index *number* bridge-table stp port-role *identityref*

Tree port-role

Options

- ROOT

  Root port role is assigned to the port that receives the best BPDU on a bridge.

- DESIGNATED

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Designated port role is assigned to the port that can send the best BPDU on the segment to which it is connected.

- ALTERNATE

  Alternate port role is assigned to the port that receives more useful BPDUs from another bridge and is blocked

- BACKUP

  Backup port role is assigned to the port that receives more useful BPDUs from the same bridge it is on and is blocked

- MASTER

  Master port role is assigned to the port that connects an MST Region to the Root Bridge of the entire network

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-state *identityref*

Description Interface Stp Port state

Context interface name *string* subinterface index *number* bridge-table stp port-state *identityref*

Tree port-state

Options

- LISTENING

  Listening port indicates port that is processing BPDUs and building active toplogy

- LEARNING

  Learning port indicates port that is building bridging tables; no forwarding of data

- BLOCKING

  Blocking port indicates port that would cause a loop if it were sending data. It only receivs BPDUs, until a topology change removes the possibliity of a loop

- FORWARDING

  Forwarding port indicates port that is operating normally, sending and receiving data

- DISCARDING

  Discarding port indicates port that is receiving and discarding data

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- DISABLED

  Disabled Port is the port that is isolated from network, either administratively down or failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Priority value coupled with port number forms 16-bit port-identifier field

Context interface name *string* subinterface index *number* bridge-table stp priority *number*

Tree priority

Range 0 to 255

Default 128

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Packet transmition statistics

Context interface name *string* subinterface index *number* bridge-table stp statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bad-bpdus-received *number*

Description	The number of Invalid BPDUs received
Context	interface name *string* subinterface index *number* bridge-table stp statistics bad-bpdus-received *number*
Tree	bad-bpdus-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cfg-bpdus-received *number*

Description	The number of configuration BPDUs received on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics cfg-bpdus-received *number*
Tree	cfg-bpdus-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cfg-bpdus-transmitted *number*

Description	The number of configuration BPDUs sent on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics cfg-bpdus-transmitted *number*
Tree	cfg-bpdus-transmitted
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-

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32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mst-bpdus-received *number*

Description	The number of MST BPDUs received on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics mst-bpdus-received *number*
Tree	mst-bpdus-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mst-bpdus-transmitted *number*

Description	The number of MST BPDUs sent on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics mst-bpdus-transmitted *number*
Tree	mst-bpdus-transmitted
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rst-bpdus-received *number*

Description	The number of RST BPDUs received on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics rst-bpdus-received *number*
Tree	rst-bpdus-received

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Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rst-bpdus-transmitted *number*

Description	The number of RST BPDUs sent on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics rst-bpdus-transmitted *number*
Tree	rst-bpdus-transmitted
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tc-bit-bpdus-received *number*

Description	The number of BPDUs received on this interface with the Topology Change bit set
Context	interface name *string* subinterface index *number* bridge-table stp statistics tc-bit-bpdus-received *number*
Tree	tc-bit-bpdus-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tc-bit-bpdus-transmitted *number*

Description	The number of BPDUs sent on this interface with the Topology Change bit set
Context	interface name *string* subinterface index *number* bridge-table stp statistics tc-bit-bpdus-transmitted *number*
Tree	tc-bit-bpdus-transmitted
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcn-bpdus-received *number*

Description	The number of topology change notification BPDUs received on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics tcn-bpdus-received *number*
Tree	tcn-bpdus-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcn-bpdus-transmitted *number*

Description	The number of topology change notification BPDUs sent on this interface
Context	interface name *string* subinterface index *number* bridge-table stp statistics tcn-bpdus-transmitted *number*
Tree	tcn-bpdus-transmitted
Default	0
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-detailed-stats *boolean*

Description	Set to false to disable detailed statistics collection on the routed (non IRB) subinterface By default detailed statistics are collected for each routed (non IRB) subinterface
Context	interface name *string* subinterface index *number* collect-detailed-stats *boolean*
Tree	collect-detailed-stats
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-irb-stats *boolean*

Description	Set to false to disable statistics collection on the IRB subinterface By default basic statistics are collected for each IRB subinterface
Context	interface name *string* subinterface index *number* collect-irb-stats *boolean*
Tree	collect-irb-stats
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A user-configured description of the interface
Context	interface name *string* subinterface index *number* description *string*
Tree	description
String Length	1 to 255

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Configurable	True
Platforms	Supported on all platforms

ethernet-segment-association

Description	Enter the ethernet-segment-association context ethernet-segment association information.
Context	interface name *string* subinterface index *number* ethernet-segment-association
Tree	ethernet-segment-association
Configurable	False
Platforms	Supported on all platforms

designated-forwarder *boolean*

Description	The value of this leaf indicates if the interface is the designated forwarder for the ethernet-segment on the network-instance.
Context	interface name *string* subinterface index *number* ethernet-segment-association designated-forwarder *boolean*
Tree	designated-forwarder
Default	false
Configurable	False
Platforms	Supported on all platforms

es-managed *boolean*

Description	The value of this leaf indicates if the interface is managed by the ethernet-segment on the network-instance.
Context	interface name *string* subinterface index *number* ethernet-segment-association es-managed *boolean*
Tree	es-managed
Default	false
Configurable	False
Platforms	Supported on all platforms

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ethernet-segment *string*

Description	The value of this leaf indicates the ethernet-segment, the sub-interface is associated to.
Context	interface name *string* subinterface index *number* ethernet-segment-association ethernet-segment *string*
Tree	ethernet-segment
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

evpn-interface-ful-unnumbered

Description	Enables evpn interface-ful unnumbered on the IRB subinterface When configured, MAC next-hop entries are created on the IRB subinterface upon the reception of EVPN-IFF unnumbered routes on the supplementary-broadcast-domain, where the MAC addresses of the entries are derived from the Gateway MAC field of the EVPN-IFF unnumbered route (encoded in the Router's MAC extended community).
Context	interface name *string* subinterface index *number* evpn-interface-ful-unnumbered
Tree	evpn-interface-ful-unnumbered
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ifindex *number*

Description	System-wide persistent unique ifIndex assigned to the subinterface
Context	interface name *string* subinterface index *number* ifindex *number*
Tree	ifindex
Configurable	False
Platforms	Supported on all platforms

ip-mtu *number*

Description	IP MTU of the subinterface in bytes.

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Includes the IP header but excludes Ethernet encapsulation.

IP MTU specifies the maximum sized IPv4 or IPv6 packet that can be transmitted on the subinterface. If an IPv4 or IPv6 packet exceeds this size it is dropped and this may result in the generation of an ICMP error message back to the source.

The default IP MTU for a subinterface is taken from /system/mtu/default-ip-mtu. For the mgmt0 and mgmt0-standby subinterfaces the default is the associated interface MTU minus the Ethernet encapsulation overhead.

The IP MTU is not configurable for subinterfaces of loopback interfaces.

The 7220 IXR systems support a maximum IP MTU of 9398 bytes.

Each 7250 IXR IMM supports a maximum of 4 different IP MTU values. 7220 IXR systems do not have any limit on the maximum number of different IP MTU values.

Context interface name *string* subinterface index *number* ip-mtu *number*

Tree ip-mtu

Range 1280 to 9486

Units bytes

Configurable True

Platforms Supported on all platforms

ipv4

Description Enter the ipv4 context

IPv4 configuration and state for the subinterface

Context interface name *string* subinterface index *number* ipv4

Tree ipv4

Configurable True

Platforms Supported on all platforms

address ip-prefix *string*

Description The list of IPv4 addresses assigned to the subinterface.

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string*

Tree address

Configurable True

Platforms Supported on all platforms

Max. Elements 512

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ip-prefix *string*

Description The IPv4 address and prefix length in CIDR notation

Subnets on the same subinterface are allowed to overlap as long as the host bits are different. When a locally originated unicast packet is destined to a host covered by multiple subnets associated with a subinterface, the source address is chosen to be the numerically lowest IP address among all these subnets. For example, if the addresses 172.16.1.1/12, 172.16.1.2/12, and 172.16.1.3/12 are configured on the same interface, 172.16.1.1 would be used as a local address when you issue a ping 172.16.1.5 command

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string*

Configurable True

Platforms Supported on all platforms

anycast-gw *boolean*

Description This designates the associated IPv4 address as an anycast-gateway IPv4 address of the subinterface.

When this parameter is set to true:

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* anycast-gw *boolean*

Tree anycast-gw

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* internal-tags

Tree internal-tags

Configurable True

Platforms subif-ip-tags and internal-tags

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set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	subif-ip-tags and internal-tags
Max. Elements	1

origin *keyword*

Description	The origin of the IPv4 address.
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* origin *keyword*
Tree	origin
Options	• other • static • dhcp • link-layer • random
Configurable	False
Platforms	Supported on all platforms

primary

Description	One of the IPv4 prefixes assigned to the subinterface can be explicitly configured as primary by setting this leaf to true. This designates the associated IPv4 address as a primary IPv4 address of the subinterface. By default, the numerically lowest value IPv4 address is selected as the primary address. The primary address is used as the source address for locally originated broadcast and multicast packets sent out the subinterface.
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* primary
Tree	primary
Configurable	True

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Platforms Supported on all platforms

status *keyword*

Description The status of an IPv4 address

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* status *keyword*

Tree status

Options

- preferred
- inaccessible
- tentative
- duplicate

Configurable False

Platforms Supported on all platforms

vrrp

Description VRRP Configuration and State under a IPv4 context of a sub-interface

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp

Tree vrrp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vrrp-group virtual-router-id *number*

Description VRRP Group Specific Configuration under IPv4 context

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number*

Tree vrrp-group

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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virtual-router-id *number*

Description	VRRP Group Index
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number*
Range	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

accept-mode *boolean*

Description	Allows ssh,ping,traceroute to be accepted on the virtual IP address
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* accept-mode *boolean*
Tree	accept-mode
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state for the associated VRRP group instance
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertise-interval *number*

Description	The interval between VRRP messages in milliseconds
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* advertise-interval *number*
Tree	advertise-interval
Range	1000 to 40950
Default	1000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description	Enter the authentication context Context to configure authentication keychain
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* authentication
Tree	authentication
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keychain *reference*

Description	Reference to a keychain. The keychain type must be md5 or clear-text
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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current-master *(ipv4-address | ipv6-address)*

Description	IP address of node currently acting as VRRP master
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* current-master *(ipv4-address | ipv6-address)*
Tree	current-master
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

init-delay *number*

Description	Initialization delay before a router that just rebooted will preemt an existing master router. Only applicable if preemt is enabled
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-tracking

Description	Enter the interface-tracking context Interface reference for interface tracking
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking
Tree	interface-tracking
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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track-interface interface *reference*

Description	Interface reference for interface tracking. VRRP Group can track multiple interfaces.
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference*
Tree	track-interface
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description	Interface to track
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference*
Reference	interface name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-decrement *number*

Description	For each tracked interface that is down then the priority is decremented by the specific amount to a minimum value of 0
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference* priority-decrement *number*
Tree	priority-decrement
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-transition *string*

Description timestamp for last master router transition

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* last-transition *string*

Tree last-transition

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

master-inherit-interval *boolean*

Description Learn VRRP advertisement interval from master

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* master-inherit-interval *boolean*

Tree master-inherit-interval

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The first (and possibly only) reason for the vrrp-group being operationally down

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-down
- sub-intf-down
- virtual-ip-mismatch
- authentication-config
- other

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-interval *number*

Description The operational advertisement interval between VRRP messages

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-interval *number*

Tree oper-interval

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description VRRP Operational state

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

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Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-priority *number*

Description Reports the current VRRP operational priority.

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* operational-priority *number*

Tree operational-priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

owner *boolean*

Description VRRP instance is owner or not

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* owner *boolean*

Tree owner

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preempt *boolean*

Description	Enable VRRP master pre-emption. If enabled, router with higher priority can assume master role. If disabled, router can only become master if no other master is present
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* preempt *boolean*
Tree	preempt
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preempt-delay *number*

Description	Delay before a router preemts an existing master router, only applicable if preemt is enabled
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* preempt-delay *number*
Tree	preempt-delay
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description	Base VRRP Priority for associated Virtual Address
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* priority *number*
Tree	priority
Range	1 to 254
Default	100
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *identityref*

Description Virtual Router state (Initialize, Backup, Master)

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* state *identityref*

Tree state

Options

- initialize

  Indicates that the virtual router is waiting for a startup event.

- backup

  Indicates that the virtual router is monitoring the availability of the master router.

- master

  Indicates that the virtual router is forwarding packets for IP addresses that are associated with this virtual router.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-address-mismatch *number*

Description Counter for the total numebr fo VRRP advertisement messages discarded due to address mismatch

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Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-address-mismatch *number*
Tree	advertisements-discarded-address-mismatch
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-authfail *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to authentication failure
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-authfail *number*
Tree	advertisements-discarded-authfail
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-authtype-mismatch *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to authentication type mismatch
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-authtype-mismatch *number*
Tree	advertisements-discarded-authtype-mismatch
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertisements-discarded-interval *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to interval mismatch
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-interval *number*
Tree	advertisements-discarded-interval
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-length *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to length of the packet
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-length *number*
Tree	advertisements-discarded-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-total *number*

Description	Counter for the total numebr fo VRRP advertisement messages dicarded
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-total *number*
Tree	advertisements-discarded-total
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertisements-discarded-ttl *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to ttl error
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-ttl *number*
Tree	advertisements-discarded-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-version-mismatch *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to version mismatch
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-version-mismatch *number*
Tree	advertisements-discarded-version-mismatch
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-interval-error *number*

Description	Counter for the total numebr fo VRRP advertisement messages with interval mismatch
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-interval-error *number*
Tree	advertisements-interval-error
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-received *number*

Description	Counter for the total numebr fo VRRP advertisement messages received
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-received *number*
Tree	advertisements-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-sent *number*

Description	Counter for the total number fo VRRP advertisement messages sent
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-sent *number*
Tree	advertisements-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-zero-packets-received *number*

Description	Counter for the total numebr fo VRRP advertisement messages received with priority 0
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics priority-zero-packets-received *number*
Tree	priority-zero-packets-received
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-zero-packets-sent *number*

Description	Counter for the total numebr fo VRRP advertisement messages sent out with priority 0
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics priority-zero-packets-sent *number*
Tree	priority-zero-packets-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description	VRRP version for the Instance
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* version *number*
Tree	version
Range	2 to 3
Default	2
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-address *(ipv4-address | ipv6-address)*

Description	Associated Virtual IP address.
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* virtual-address *(ipv4-address | ipv6-address)*
Tree	virtual-address
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

virtual-mac *string*

Description	VRRP Instance generated virtual mac
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* virtual-mac *string*
Tree	virtual-mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable/disable IPv4 on the subinterface When set to enable, and even before an IPv4 address is configured, the subinterface starts to accept incoming packets with dest-ip 255.255.255.255, which is necessary to support dhcp-client functionality.
Context	interface name *string* subinterface index *number* ipv4 admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

allow-directed-broadcast *boolean*

Description	When this is set to true the software is allowed to re-broadcast targeted broadcast IPv4 packets on this subinterface Detailed handling of subnet broadcast is as follows: If a targeted broadcast packet is received on subinterface X that has the matching subnet then it is delivered to the CPM and CPM will reply to an ICMP echo.

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If a targeted broadcast packet is received on subinterface X but the matching subnet is associated with subinterface Y, and subinterface Y is configured with allow-directed-broadcasts=false then it is delivered to the CPM and CPM replies to an ICMP echo per above, but it does not re-broadcast the packet on subinterface Y.

If a targeted broadcast packet is received on subinterface X but the matching subnet is associated with subinterface Y, and subinterface Y is configured with allow-directed-broadcasts=true then it is delivered to the CPM and CPM replies to an ICMP echo per above, and CPM also re-broadcasts the packet on subinterface Y.

Context interface name *string* subinterface index *number* ipv4 allow-directed-broadcast *boolean*

Tree allow-directed-broadcast

Default false

Configurable True

Platforms Supported on all platforms

arp

Description Enter the arp context

Container for the IPv4 ARP protocol

Context interface name *string* subinterface index *number* ipv4 arp

Tree arp

Configurable True

Platforms Supported on all platforms

debug *keyword*

Description List of events to debug

Context interface name *string* subinterface index *number* ipv4 arp debug *keyword*

Tree debug

Options

- messages

  Capture all arp-request and reply-messages sent and received by the subinterface

Configurable True

Platforms Supported on all platforms

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duplicate-address-detection *boolean*

Description	If set to true IPv4 Address Conflict Detection per RFC 5227 is performed on the IPv4 address assigned to the subinterface
Context	interface name *string* subinterface index *number* ipv4 arp duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Default	true
Configurable	True
Platforms	Supported on all platforms

evpn

Description	Configure which types of ARP or ND entries will be advertised in EVPN MAC/IP routes.
Context	interface name *string* subinterface index *number* ipv4 arp evpn
Tree	evpn
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise route-type *keyword*

Description	Enter the advertise list instance
Context	interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword*
Tree	advertise
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-type *keyword*

Description Controls what type of ARP or ND entries to advertise.

Context interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword*

Options

- static
- dynamic
- evpn-local-es

  Advertise ARP/ND entries for evpn local ethernet segment entries

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-less-routing

Description Enables the advertisement of EVPN-IFL host routes for entries derived from ARP/ND entries

When configured, the ARP/ND entries indicated by the parent advertise command are advertised in EVPN MAC/IP Advertisement routes that include not only the label1 and route target of the MAC-VRF network-instance, but also the label2 value and route target of the EVPN interface-less instance in the linked IP-VRF.

Context interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword* interface-less-routing

Tree interface-less-routing

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-evpn-instance *reference*

Description The bgp-evpn instance of the IP-VRF network-instance

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It indicates from which EVPN interface-less bgp-instance the layer-3 label and route target are taken when advertising the ARP/ND entry in an EVPN MAC/IP Advertisement route.

Context interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword* interface-less-routing bgp-evpn-instance *reference*

Tree bgp-evpn-instance

Default 1

Reference network-instance name *string* protocols bgp-vpn bgp-instance id *number*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword* internal-tags

Tree internal-tags

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description Reference to a tag-set defined under routing-policy

Context interface name *string* subinterface index *number* ipv4 arp evpn advertise route-type *keyword* internal-tags set-tag-set *reference*

Tree set-tag-set

Reference routing-policy tag-set name *string*

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

local-es

Description Enter the local-es context

Configuration of evpn ARP/ND entries for local ethernet segment entries

Context interface name *string* subinterface index *number* ipv4 arp evpn local-es

Tree local-es

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *keyword*

Description Controls how evpn-derived ARP/ND entries are programmed

When set to evpn, the received EVPN MAC/IP Advertisement routes matching a local ethernet segment create an ARP/ND entry of type evpn. When set to evpn-local-es, the ARP/ND corresponding entries are of type evpn-local-es. The evpn-local-es ARP/ND entries then trigger the local router to advertise corresponding MAC/IP Advertisement routes with the proxy bit set if the advertise evpn-local-es command is configured. The evpn-local-es entries are subject to the retention-timer when the evpn route that created the entry is withdrawn.

Context interface name *string* subinterface index *number* ipv4 arp evpn local-es entry-type *keyword*

Tree entry-type

Default evpn

Options

- evpn
- evpn-local-es

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-timer *number*

Description	The retention timer in seconds for evpn-local-es entries This timer begins when the EVPN MAC/IP Advertisement route that originated the evpn-local-es route is withdrawn and defines how long the evpn-local-es entry is retained. While the timer is active, the router sends ARP Requests or Neighbor Solicitations for the entry to the local ethernet segment. The entry is converted into a dynamic entry if a response is received. This timer can only be configured when entry-type is evpn-local-es.
Context	interface name *string* subinterface index *number* ipv4 arp evpn local-es retention-timer *number*
Tree	retention-timer
Range	0 to 65535
Default	0
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-route

Description	Enter the host-route context Configure which types of ARP or ND entries will be populated in the route-table.
Context	interface name *string* subinterface index *number* ipv4 arp host-route
Tree	host-route
Configurable	True
Platforms	Supported on all platforms

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populate route-type *keyword*

Description	Enter the populate list instance
Context	interface name *string* subinterface index *number* ipv4 arp host-route populate route-type *keyword*
Tree	populate
Configurable	True
Platforms	Supported on all platforms

route-type *keyword*

Description	Controls what type of ARP or ND entries generate a host route.
Context	interface name *string* subinterface index *number* ipv4 arp host-route populate route-type *keyword*
Options	• static • dynamic • evpn • evpn-local-es Generate host route for evpn local ethernet segment entries
Configurable	True
Platforms	Supported on all platforms

datapath-programming *boolean*

Description	When set to true, the host route is programmed in the datapath
Context	interface name *string* subinterface index *number* ipv4 arp host-route populate route-type *keyword* datapath-programming *boolean*
Tree	datapath-programming
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context interface name *string* subinterface index *number* ipv4 arp host-route populate route-type *keyword* internal-tags

Tree internal-tags

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description Reference to a tag-set defined under routing-policy

Context interface name *string* subinterface index *number* ipv4 arp host-route populate route-type *keyword* internal-tags set-tag-set *reference*

Tree set-tag-set

Reference routing-policy tag-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

learn-unsolicited *boolean*

Description If set to true an ARP entry should be learned from any received ARP packets.

Context interface name *string* subinterface index *number* ipv4 arp learn-unsolicited *boolean*

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Tree	learn-unsolicited
Default	false
Configurable	True
Platforms	Supported on all platforms

neighbor ipv4-address *string*

Description	List of static and dynamic ARP cache entries that map an IPv4 address to a MAC address To configure a static ARP entry a value must be written into this leaf and the link-layer-address leaf.
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string*
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

ipv4-address *string*

Description	IPv4 address resolved by the ARP entry To configure a static neighbor entry a value must be written into this leaf and the link-layer-address leaf.
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string*
Configurable	True
Platforms	Supported on all platforms

datapath-programming

Description	Enter the datapath-programming context Container for state related to the datapath programming of the ARP or neighbor entry
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* datapath-programming
Tree	datapath-programming
Configurable	False
Platforms	Supported on all platforms

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last-failed-complexes *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* datapath-programming last-failed-complexes *string*

Tree last-failed-complexes

Configurable False

Platforms Supported on all platforms

status *keyword*

Description The status of the ARP or neighbor entry with respect to datapath programming

Context interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* datapath-programming status *keyword*

Tree status

Options

- success

  All linecard complexes have reported that the entry was programmed successfully

- failed

  At least one linecard complex reported that the entry was not programmed successfully or else this entry was not even provided to the datapath for programming because the system limit on the number of IPv4 ARP and IPv6 neighbor entries was exceeded

- pending

  The ARP or neighbor entry was provided to the datapath for programming but at least one linecard complex has not provided a status yet.

Configurable False

Platforms Supported on all platforms

expiration-time *string*

Description The date and time when the dynamic ARP entry is set to expire

Context interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* expiration-time *string*

Tree expiration-time

String Length 20 to 32

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Configurable	False
Platforms	Supported on all platforms

group-based-policy-tag *number*

Description	The group-based-policy tag value associated to this arp entry
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* group-based-policy-tag *number*
Tree	group-based-policy-tag
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

link-layer-address *string*

Description	The resolving MAC address of the ARP entry To configure a static ARP entry a value must be written into this leaf and the ipv4-address leaf.
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	True
Platforms	Supported on all platforms

origin *keyword*

Description	The origin of the ARP entry
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* origin *keyword*
Tree	origin
Options	• other • static • dynamic • evpn • submgmt • evpn-local-es
Configurable	False

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Platforms	Supported on all platforms

proxy-arp *boolean*

Description	When set to true, the router replies with its own MAC to ARP Request destined to any host.
Context	interface name *string* subinterface index *number* ipv4 arp proxy-arp *boolean*
Tree	proxy-arp
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	Duration of time that dynamic ARP entries remain in the ARP cache before they expire A change to this value does not affect existing entries until they are refreshed.
Context	interface name *string* subinterface index *number* ipv4 arp timeout *number*
Tree	timeout
Range	60 to 65535
Default	14400
Units	seconds
Configurable	True
Platforms	Supported on all platforms

virtual-ipv4-discovery

Description	Enable Virtual IPv4 discovery on the subinterface and configure associated parameters When enabled, the system will attempt to discover the configured virtual IPv4 addresses on the listed bridged subinterfaces.
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery

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Tree	virtual-ipv4-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address ipv4-address *string*

Description	The list of virtual IPv4 addresses to be discovered on the subinterface.
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string*
Tree	address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	640

ipv4-address *string*

Description	The virtual IPv4 address.
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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allowed-macs *string*

Description List of allowed mac addresses for a discovered virtual IP address.

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* allowed-macs *string*

Tree allowed-macs

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 10

probe-bridged-subinterfaces *string*

Description Configure the list of bridged sub-interfaces on the associated MAC-VRF to which the ARP probes are sent.

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* probe-bridged-subinterfaces *string*

Tree probe-bridged-subinterfaces

String Length 5 to 27

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 10

probe-interval *number*

Description Configure the ARP probe interval at which the system sends an ARP request for the virtual IPv4 address.

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The default value of zero determines that the system sends an ARP Request for the virtual IPv4 only when the address is configured. The creation of the ARP entry for the virtual IPv4 address will in this case rely on the server sending a Gratuitous ARP for the virtual IPv4 address. When the value is set to a non-zero interval, the system sends a periodic ARP Request at the configured interval and irrespective of the ARP entry being already created.

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* probe-interval *number*

Tree probe-interval

Range 0 | 5 to 86400

Default 0

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Statistics for the Virtual IP address

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-probe-packets *number*

Description The number of probe packets transmitted for the Virtual IP discovery.

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Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* statistics out-probe-packets *number*
Tree	out-probe-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Global statistics for Virtual IP discovery
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery statistics
Tree	statistics
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-total-probe-packets *number*

Description	The number of total probe packets transmitted for Virtual discovery.
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery statistics out-total-probe-packets *number*
Tree	out-total-probe-packets
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcp-client

Description Container for options related to DHCP

Context interface name *string* subinterface index *number* ipv4 dhcp-client

Tree dhcp-client

Configurable True

Platforms Supported on all platforms

trace-options

Description Enter the trace-options context

Container for tracing DHCPv4 operations on the subinterface

Context interface name *string* subinterface index *number* ipv4 dhcp-client trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* ipv4 dhcp-client trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv4 messages sent and received by the subinterface

Configurable True

Platforms Supported on all platforms

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dhcp-relay

Description Container for options related to DHCPv4 relay

Context interface name *string* subinterface index *number* ipv4 dhcp-relay

Tree dhcp-relay

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description The configurable state of the dhcp relay agent

Context interface name *string* subinterface index *number* ipv4 dhcp-relay admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

circuit-id-l2-interface *boolean*

Description When this is set, the format of the option 82 suboption 1 circuit-id will be changed to indicate the L2 interface the packet came from, format=system_name/MAC_VRF_instance_name/L2_interface_name/sub_interface_id:vlan_id

Context interface name *string* subinterface index *number* ipv4 dhcp-relay circuit-id-l2-interface *boolean*

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Tree	circuit-id-l2-interface
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-resolution

Description	Enter the dns-resolution context
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay dns-resolution
Tree	dns-resolution
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server domain *string*

Description	Reports the resolved IP address for server entries using domain names
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay dns-resolution server domain *string*
Tree	server
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain *string*

Description The server domain name

Context interface name *string* subinterface index *number* ipv4 dhcp-relay dns-resolution server domain *string*

String Length 1 to 253

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of the server IP address

Context interface name *string* subinterface index *number* ipv4 dhcp-relay dns-resolution server domain *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resolved-ip-address *(ipv4-address | ipv6-address)*

Description The resolved IP address of the server domain name.

An entry of 0.0.0.0 indicates the server IP cannot be resolved.

Context interface name *string* subinterface index *number* ipv4 dhcp-relay dns-resolution server domain *string* resolved-ip-address *(ipv4-address | ipv6-address)*

Tree resolved-ip-address

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gi-address *string*

Description	IPv4 address to be used as giaddr of the relayed packets towards DHCPv4 servers. This address can be any IPv4 address configured within the network-instance towards the DHCPv4 server
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay gi-address *string*
Tree	gi-address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	network instance to relay dhcp packets to
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-down-reason *keyword*

Description The reason causing the dhcp relay agent to go into operational down state

Context interface name *string* subinterface index *number* ipv4 dhcp-relay oper-down-reason *keyword*

Tree oper-down-reason

Options

- dhcp-relay-admin-down
- sub-interface-oper-down
- all-dhcp-servers-unreachable-within-net-instance
- gi-address-not-matching-relay-sub-interface-ipv4-addresses
- no-valid-ipv4-address-on-sub-interface

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the dhcp relay agent

Context interface name *string* subinterface index *number* ipv4 dhcp-relay oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting

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- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

option *keyword*

Description List of option82 suboptions to insert into relayed packet towards DHCPv4 server

Context interface name *string* subinterface index *number* ipv4 dhcp-relay option *keyword*

Tree option

Options

- circuit-id

  Enable option 82 suboption 1 circuit-id into relayed packet towards DHCPv4 server, format=system_name/VRF_instance/sub-interface_id:vlan_id

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- remote-id

  Enable option 82 suboption 2 remote-id into relayed packet towards DHCPv4 server, format=client MAC address

- link-selection

  Enable option 82 suboption 5 link-selection into relayed packet towards DHCPv4 server, format=IP address of incoming interface

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server *(ipv4-address | domain-name)*

Description List of the DHCPv4 servers that the DHCPv4 relay function will relay DHCPv4 packets to/from

Context interface name *string* subinterface index *number* ipv4 dhcp-relay server *(ipv4-address | domain-name)*

Tree server

String Length 1 to 253

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8

Min. Elements 1

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv4 dhcp-relay statistics

Tree statistics

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description	Total discarded dhcp packets from dhcp client(s) towards DHCP server(s)
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay statistics client-packets-discarded *number*
Tree	client-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description	Total received dhcp packets from dhcp client(s) for DHCP Relay
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay statistics client-packets-received *number*
Tree	client-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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client-packets-relayed *number*

Description	Total relayed dhcp packets from dhcp client(s) towards DHCP server(s)
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay statistics client-packets-relayed *number*
Tree	client-packets-relayed
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-discarded *number*

Description	Total discarded dhcp packets from DHCP server(s) towards dhcp client(s)
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay statistics server-packets-discarded *number*
Tree	server-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-received *number*

Description	Total received dhcp packets from DHCP server(s) for DHCP Relay
Context	interface name *string* subinterface index *number* ipv4 dhcp-relay statistics server-packets-received *number*
Tree	server-packets-received
Default	0
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-relayed *number*

Description Total relayed dhcp packets from DHCP server(s) towards dhcp client(s)

Context interface name *string* subinterface index *number* ipv4 dhcp-relay statistics server-packets-relayed *number*

Tree server-packets-relayed

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Container for tracing DHCPv4 relay operations on the subinterface

Context interface name *string* subinterface index *number* ipv4 dhcp-relay trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* ipv4 dhcp-relay trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv4 messages sent and received by the subinterface

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trusted-mode *boolean*

Description When this is set, trusted mode will be enabled for incoming DHCPv4 messages

If option 82 is set and giaddr is zero, do not add second relay-agent option and set giaddr as configured and forward If a non-zero giaddr packet is received without matching the configured giaddr, forward without additional options If a non-zero giaddr packet is received and matching the configured giaddr, drop

Context interface name *string* subinterface index *number* ipv4 dhcp-relay trusted-mode *boolean*

Tree trusted-mode

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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use-gi-addr-as-src-ip-addr *boolean*

Description When this is set, the configured giaddress will be used as source ip address.

Context interface name *string* subinterface index *number* ipv4 dhcp-relay use-gi-addr-as-src-ip-addr *boolean*

Tree use-gi-addr-as-src-ip-addr

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcp-server

Description Enable the dhcp-server context

Context interface name *string* subinterface index *number* ipv4 dhcp-server

Tree dhcp-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enables/Disables DHCP server function on subinterface

Context interface name *string* subinterface index *number* ipv4 dhcp-server admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details if the dhcp server is operationally available

Context interface name *string* subinterface index *number* ipv4 dhcp-server oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state

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- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for subinterface statistics, including all IPv4, IPv6 and MPLS packets belonging to a routed subinterface, or including just one of these protocols on a routed subinterface, or for all frames on a bridged subinterface

Context interface name *string* subinterface index *number* ipv4 statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-discarded-packets *number*

Description The total number of input packets dropped due to operator preference, control, or policy

Includes:

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In an MPLS context, this includes the total number of MPLS packets that were dropped because they were received with forwarded top label having an MPLS TTL value of 1

Context interface name *string* subinterface index *number* ipv4 statistics in-discarded-packets *number*

Tree in-discarded-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-error-packets *number*

Description The total number of input packets discarded due to header field errors, counting transit and terminating traffic

Includes hop-count/TTL/HopLimit exceeded on transit, bad version, IHL/length/checksum, address errors (including IPv4 Class E destination 240.0.0.0/4), truncated packets, and IPv6 Beyond Scope drops for transit packets with a link-local source.

Only errors detected in the forwarding pipeline are counted here. Header field errors that the control plane detects in a packet it has already accepted, such as an unsupported IPv4 option or an invalid IPv6 extension header, option or fragment, are counted in in-terminated-packets.

A Next Header value of 59 (No Next Header) is not an error.

In an MPLS context, the total number of MPLS packets that were dropped because:

Context interface name *string* subinterface index *number* ipv4 statistics in-error-packets *number*

Tree in-error-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-forwarded-octets *number*

Description	The number of octets in packets received on this subinterface counted in in-forwarded-packets
Context	interface name *string* subinterface index *number* ipv4 statistics in-forwarded-octets *number*
Tree	in-forwarded-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-forwarded-packets *number*

Description	The number of packets received on this subinterface for which the router was not the final destination and for which the router attempted to find a route to forward them to that final destination Includes non-terminating IPv4 packets with options, non-terminating IPv6 packets with Routing, Destination Options or Fragment headers, packets that trigger ICMP/ICMPv6 redirect messages, and packets extracted to the CPM for ARP/ND resolution of a next-hop or locally connected host. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted for option inspection and counted in in-terminated-packets instead.
Context	interface name *string* subinterface index *number* ipv4 statistics in-forwarded-packets *number*
Tree	in-forwarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-matched-ra-packets *number*

Description	The total number of IPv6 packets matched with applied RA-Guard policy
Context	interface name *string* subinterface index *number* ipv4 statistics in-matched-ra-packets *number*

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Tree	in-matched-ra-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-octets *number*

Description	The total number of octets received in input packets, counting transit and terminating traffic
Context	interface name *string* subinterface index *number* ipv4 statistics in-octets *number*
Tree	in-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-packets *number*

Description	The total number of input packets received, counting transit and terminating traffic This equals the sum of: in-error-packets in-discarded-packets in-terminated-packets in-forwarded-packets
Context	interface name *string* subinterface index *number* ipv4 statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-terminated-octets *number*

Description The total number of octets in packets that were received on this subinterface and counted in in-terminated-packets

Context interface name *string* subinterface index *number* ipv4 statistics in-terminated-octets *number*

Tree in-terminated-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-terminated-packets *number*

Description The total number of input packets extracted to the control plane after CPM filter accept

Locally destined (terminating) packets are counted here. Transit IPv4 packets with options are forwarded without extraction and counted in in-forwarded-packets, as are transit IPv6 packets with Routing, Destination Options or Fragment headers. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted so that the options can be inspected, is counted here, and is forwarded by the control plane when the options are valid.

A packet counted here stays on this counter even when the control plane subsequently discards it; the count is never moved to in-discarded-packets or in-error-packets. Such control plane discards include:

Context interface name *string* subinterface index *number* ipv4 statistics in-terminated-packets *number*

Tree in-terminated-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the subinterface counters were cleared

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Context	interface name *string* subinterface index *number* ipv4 statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-discarded-packets *number*

Description	The total number of packets, originating and transit, that should have been sent out this subinterface but were dropped This includes IP packets dropped by egress interface ACL drop action. On 7220 platforms, which do not support out-error-packets, this also includes IP and MPLS packets dropped because the egress IP MTU or MPLS MTU was exceeded. Those MTU-exceeded drops are not counted on 7215 IXS-A1.
Context	interface name *string* subinterface index *number* ipv4 statistics out-discarded-packets *number*
Tree	out-discarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-error-packets *number*

Description	The number of packets, originating and transit, for which this router was successful in finding a path to their final destination through this subinterface but an error prevented their transmission On 7250 IXR systems this is incremented when the IPv4 packet size exceeds the IP MTU and fragmentation was not allowed or not supported. It is also incremented when the MPLS packet size exceeds the MPLS MTU of the subinterface. On platforms that do not support this counter the same MTU-exceeded drops are counted in out-discarded-packets.
Context	interface name *string* subinterface index *number* ipv4 statistics out-error-packets *number*

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Tree	out-error-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-octets *number*

Description	The number of octets in transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv4 statistics out-forwarded-octets *number*
Tree	out-forwarded-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-packets *number*

Description	The number of transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv4 statistics out-forwarded-packets *number*
Tree	out-forwarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-octets *number*

Description	The total number of octets in packets delivered to the lower layers for transmission

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Context	interface name *string* subinterface index *number* ipv4 statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-octets *number*

Description	The number of octets in packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv4 statistics out-originated-octets *number*
Tree	out-originated-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-packets *number*

Description	The number of packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv4 statistics out-originated-packets *number*
Tree	out-originated-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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out-packets *number*

Description The total number of packets that this router supplied to the lower layers for transmission

This equals the sum of: out-error-packets out-discarded-packets out-originated-packets out-forwarded-packets

Context interface name *string* subinterface index *number* ipv4 statistics out-packets *number*

Tree out-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered

Description Enter the unnumbered context

Top-level container for configuring unnumbered interfaces

Context interface name *string* subinterface index *number* ipv4 unnumbered

Tree unnumbered

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description The operational IPv4 address borrowed from the referenced subinterface

Context interface name *string* subinterface index *number* ipv4 unnumbered address *string*

Tree address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220

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IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When enabled, the subinterface should operate in unnumbered mode for IPv4

Context interface name *string* subinterface index *number* ipv4 unnumbered admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Reference to the subinterface with the IPv4 address to be borrowed

Context interface name *string* subinterface index *number* ipv4 unnumbered interface *string*

Tree interface

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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unavailable-address-reason *keyword*

Description The reason why there is no operational IPv4 address to use for this subinterface

Context interface name *string* subinterface index *number* ipv4 unnumbered unavailable-address-reason *keyword*

Tree unavailable-address-reason

Options

- not-same-network-instance

  The referenced subinterface does not belong to the same network instance as the borrowing subinterface
- referenced-interface-is-down

  The referenced subinterface is operationally down
- referenced-interface-ipv4-is-down

  The referenced subinterface is not enabled for IPv4
- referenced-interface-has-no-ipv4-addresses

  The referenced subinterface has no IPv4 addresses assigned to it

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

IPv6 configuration and state for the subinterface

Context interface name *string* subinterface index *number* ipv6

Tree ipv6

Configurable True

Platforms Supported on all platforms

address ip-prefix *string*

Description The list of IPv6 addresses assigned to the subinterface.

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string*

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Tree	address
Configurable	True
Platforms	Supported on all platforms
Max. Elements	512

ip-prefix *string*

Description	The IPv6 address and prefix-length in CIDR notation Up to 16 global unicast IPv6 addresses can be assigned to each subinterface. Global unicast IPv6 address subnets on the same subinterface are allowed to overlap as long as the host bits are different. When a locally originated unicast packet is destined to a host covered by multiple subnets associated with a subinterface, the source address is chosen to be the numerically lowest IP address among all these subnets.
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string*
Configurable	True
Platforms	Supported on all platforms

anycast-gw *boolean*

Description	This designates the associated IPv6 address as an anycast-gateway IPv6 address of the subinterface. When this parameter is set to true:
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* anycast-gw *boolean*
Tree	anycast-gw
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags

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Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* internal-tags
Tree	internal-tags
Configurable	True
Platforms	subif-ip-tags and internal-tags

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	subif-ip-tags and internal-tags
Max. Elements	1

origin *keyword*

Description	The origin of the IPv6 address
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* origin *keyword*
Tree	origin
Options	• other • static • dhcp • link-layer • random
Configurable	False
Platforms	Supported on all platforms

primary

Description	One of the IPv6 prefixes assigned to the subinterface can be explicitly configured as primary by setting this leaf to true. This designates the associated IPv6 address as a primary IPv6 address of the subinterface. By default, the numerically lowest value IPv6 address is selected as the primary address.

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The primary address is used as the source address for locally originated broadcast and multicast packets sent out the subinterface.

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* primary

Tree primary

Configurable True

Platforms Supported on all platforms

status *keyword*

Description The status of an IPv6 address

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* status *keyword*

Tree status

Options

- preferred
- deprecated
- invalid
- inaccessible
- unknown
- tentative
- duplicate
- optimistic

Configurable False

Platforms Supported on all platforms

type *keyword*

Description Specifies the explicit type of the IPv6 address being assigned to the subinterface

By default, addresses are assumed to be global unicast. Where a link-local address is to be explicitly configured, this leaf should be set to link-local.

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* type *keyword*

Tree type

Default global-unicast

Options

- global-unicast

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The IPv6 address is a global unicast address type and must be in the format defined in RFC 4291 section 2.4.

- link-local-unicast

  The IPv6 address is a Link-Local unicast address type and must be in the format defined in RFC 4291 section 2.4.

Configurable True

Platforms Supported on all platforms

vrrp

Description VRRP Configuration and State under a IPv6 context of a sub-interface

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp

Tree vrrp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vrrp-group virtual-router-id *number*

Description VRRP Group Specific Configuration under IPv6 context

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number*

Tree vrrp-group

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-router-id *number*

Description VRRP Group Index

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number*

Range 1 to 255

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

accept-mode *boolean*

Description	Allows ssh,ping,traceroute to be accepted on the virtual IP address
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* accept-mode *boolean*
Tree	accept-mode
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state for the associated VRRP group instance
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-interval *number*

Description	The interval between VRRP messages in milliseconds
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* advertise-interval *number*
Tree	advertise-interval
Range	1000 to 40950
Default	1000
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description Enter the authentication context

Context to configure authentication keychain

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* authentication

Tree authentication

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keychain *reference*

Description Reference to a keychain. The keychain type must be md5 or clear-text

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* authentication keychain *reference*

Tree keychain

Reference system authentication keychain name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-master *(ipv4-address | ipv6-address)*

Description IP address of node currently acting as VRRP master

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* current-master *(ipv4-address | ipv6-address)*

Tree current-master

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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init-delay *number*

Description	Initialization delay before a router that just rebooted will preemt an existing master router. Only applicable if preemt is enabled
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-tracking

Description	Enter the interface-tracking context Interface reference for interface tracking
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking
Tree	interface-tracking
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

track-interface interface *reference*

Description	Interface reference for interface tracking. VRRP Group can track multiple interfaces.
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference*
Tree	track-interface
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface *reference*

Description	Interface to track
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference*
Reference	interface name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-decrement *number*

Description	For each tracked interface that is down then the priority is decremented by the specific amount to a minimum value of 0
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* interface-tracking track-interface interface *reference* priority-decrement *number*
Tree	priority-decrement
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-transition *string*

Description	timestamp for last master router transition
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* last-transition *string*
Tree	last-transition
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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master-inherit-interval *boolean*

Description	Learn VRRP advertisement interval from master
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* master-inherit-interval *boolean*
Tree	master-inherit-interval
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The first (and possibly only) reason for the vrrp-group being operationally down
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• admin-down • sub-intf-down • virtual-ip-mismatch • authentication-config • other
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-interval *number*

Description	The operational advertisement interval between VRRP messages
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-interval *number*
Tree	oper-interval
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description VRRP Operational state

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

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Component or process is currently waiting

This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-priority *number*

Description Reports the current VRRP operational priority.

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* operational-priority *number*

Tree operational-priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

owner *boolean*

Description VRRP instance is owner or not

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* owner *boolean*

Tree owner

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preempt *boolean*

Description Enable VRRP master pre-emption. If enabled, router with higher priority can assume master role. If disabled, router can only become master if no other master is present

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* preempt *boolean*

Tree preempt

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preempt-delay *number*

Description	Delay before a router preemts an existing master router, only applicable if preemt is enabled
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* preempt-delay *number*
Tree	preempt-delay
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description	Base VRRP Priority for associated Virtual Address
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* priority *number*
Tree	priority
Range	1 to 254
Default	100
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *identityref*

Description	Virtual Router state (Initialize, Backup, Master)
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* state *identityref*
Tree	state
Options	• initialize Indicates that the virtual router is waiting for a startup event.

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- backup

  Indicates that the virtual router is monitoring the availability of the master router.

- master

  Indicates that the virtual router is forwarding packets for IP addresses that are associated with this virtual router.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-address-mismatch *number*

Description Counter for the total numebr fo VRRP advertisement messages discarded due to address mismatch

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-address-mismatch *number*

Tree advertisements-discarded-address-mismatch

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-authfail *number*

Description Counter for the total numebr fo VRRP advertisement messages discarded due to authentication failure

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Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-authfail *number*
Tree	advertisements-discarded-authfail
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-authtype-mismatch *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to authentication type mismatch
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-authtype-mismatch *number*
Tree	advertisements-discarded-authtype-mismatch
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-interval *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to interval mismatch
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-interval *number*
Tree	advertisements-discarded-interval
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertisements-discarded-length *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to length of the packet
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-length *number*
Tree	advertisements-discarded-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-total *number*

Description	Counter for the total numebr fo VRRP advertisement messages dicarded
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-total *number*
Tree	advertisements-discarded-total
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-discarded-ttl *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to ttl error
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-ttl *number*
Tree	advertisements-discarded-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertisements-discarded-version-mismatch *number*

Description	Counter for the total numebr fo VRRP advertisement messages discarded due to version mismatch
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-discarded-version-mismatch *number*
Tree	advertisements-discarded-version-mismatch
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-interval-error *number*

Description	Counter for the total numebr fo VRRP advertisement messages with interval mismatch
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-interval-error *number*
Tree	advertisements-interval-error
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisements-received *number*

Description	Counter for the total numebr fo VRRP advertisement messages received
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-received *number*
Tree	advertisements-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertisements-sent *number*

Description	Counter for the total number fo VRRP advertisement messages sent
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics advertisements-sent *number*
Tree	advertisements-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-zero-packets-received *number*

Description	Counter for the total numebr fo VRRP advertisement messages received with priority 0
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics priority-zero-packets-received *number*
Tree	priority-zero-packets-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-zero-packets-sent *number*

Description	Counter for the total numebr fo VRRP advertisement messages sent out with priority 0
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* statistics priority-zero-packets-sent *number*
Tree	priority-zero-packets-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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version *number*

Description	VRRP version for the Instance
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* version *number*
Tree	version
Range	2 to 3
Default	3
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-address *string*

Description	Associated Virtual IP address.
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* virtual-address *string*
Tree	virtual-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

virtual-link-local-address *string*

Description	Generated link local address based on virtual-mac for virtual router instance
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* virtual-link-local-address *string*
Tree	virtual-link-local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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virtual-mac *string*

Description	VRRP Instance generated virtual mac
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp vrrp-group virtual-router-id *number* virtual-mac *string*
Tree	virtual-mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable/disable IPv6 on the subinterface When set to enable, and even before a global unicast IPv6 address is configured, chassis manager assigns an IPv6 link-local address to the subinterface, which will appear as a read-only entry in the address list. At this stage, the subinterface can receive IPv6 packets with any of the following destinations:
Context	interface name *string* subinterface index *number* ipv6 admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

dhcp-client

Description	Container for options related to DHCPv6
Context	interface name *string* subinterface index *number* ipv6 dhcp-client
Tree	dhcp-client
Configurable	True
Platforms	Supported on all platforms

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trace-options

Description Enter the trace-options context

Container for tracing DHCPv6 operations on the subinterface

Context interface name *string* subinterface index *number* ipv6 dhcp-client trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* ipv6 dhcp-client trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv6 messages sent and received by the subinterface

Configurable True

Platforms Supported on all platforms

dhcp-relay

Description Container for options related to DHCPv6 relay

Context interface name *string* subinterface index *number* ipv6 dhcp-relay

Tree dhcp-relay

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description The configurable state of the dhcp relay agent

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Context interface name *string* subinterface index *number* ipv6 dhcp-relay admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-resolution

Description Enter the dns-resolution context

Context interface name *string* subinterface index *number* ipv6 dhcp-relay dns-resolution

Tree dns-resolution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server domain *string*

Description Reports the resolved IP address for server entries using domain names

Context interface name *string* subinterface index *number* ipv6 dhcp-relay dns-resolution server domain *string*

Tree server

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain *string*

Description The server domain name

Context interface name *string* subinterface index *number* ipv6 dhcp-relay dns-resolution server domain *string*

String Length 1 to 253

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of the server IP address

Context interface name *string* subinterface index *number* ipv6 dhcp-relay dns-resolution server domain *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resolved-ip-address *(ipv4-address | ipv6-address)*

Description The resolved IP address of the server domain name.

An entry of 0.0.0.0 indicates the server IP cannot be resolved.

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Context	interface name *string* subinterface index *number* ipv6 dhcp-relay dns-resolution server domain *string* resolved-ip-address *(ipv4-address | ipv6-address)*
Tree	resolved-ip-address
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-id-l2-interface *boolean*

Description	When this is set, the format of the option 18 interface-id will be changed to indicate the L2 interface the packet came from, format=system_name/MAC_VRF_instance_name/L2_interface_name/sub_interface_id:vlan_id
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay interface-id-l2-interface *boolean*
Tree	interface-id-l2-interface
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	network instance to relay dhcp packets to
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason causing the dhcp relay agent to go into operational down state

Context interface name *string* subinterface index *number* ipv6 dhcp-relay oper-down-reason *keyword*

Tree oper-down-reason

Options

- dhcp-relay-admin-down
- sub-interface-oper-down
- all-dhcpv6-servers-unreachable-within-net-instance
- source-address-not-matching-relay-sub-interface-ipv6-addresses
- no-valid-ipv6-address-on-sub-interface

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the dhcp relay agent

Context interface name *string* subinterface index *number* ipv6 dhcp-relay oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

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Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

option *keyword*

Description List of options to insert into relayed packet towards DHCPv6 server

Context interface name *string* subinterface index *number* ipv6 dhcp-relay option *keyword*

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Tree	option
Options	• interface-id Enable option 18 Interface-Id into relayed packet towards DHCPv6 server, format=system_name/VRF_instance/sub-interface_id:vlan_id • remote-id Enable option 37 Remote Identifier into relayed packet towards DHCPv6 server, format=client MAC address • client-link-layer-address Enable option 79 Client Link-Layer Address into relayed packet towards DHCPv6 server, format based on rfc-6939
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server *(ipv6-address | domain-name)*

Description	List of the DHCPv6 servers that the DHCPv6 relay function will relay DHCPv6 packets to/from
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay server *(ipv6-address | domain-name)*
Tree	server
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8
Min. Elements	1

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source-address *string*

Description Source IPv6 address of the relayed packets towards DHCPv6 servers this address can be any IPv6 address configured within the network-instance towards the DHCPv6 server

Context interface name *string* subinterface index *number* ipv6 dhcp-relay source-address *string*

Tree source-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv6 dhcp-relay statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description Total discarded dhcp packets from dhcp client(s) towards DHCP server(s)

Context interface name *string* subinterface index *number* ipv6 dhcp-relay statistics client-packets-discarded *number*

Tree client-packets-discarded

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description Total received dhcp packets from dhcp client(s) for DHCP Relay

Context interface name *string* subinterface index *number* ipv6 dhcp-relay statistics client-packets-received *number*

Tree client-packets-received

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-relayed *number*

Description Total relayed dhcp packets from dhcp client(s) towards DHCP server(s)

Context interface name *string* subinterface index *number* ipv6 dhcp-relay statistics client-packets-relayed *number*

Tree client-packets-relayed

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-discarded *number*

Description Total discarded dhcp packets from DHCP server(s) towards dhcp client(s)

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Context	interface name *string* subinterface index *number* ipv6 dhcp-relay statistics server-packets-discarded *number*
Tree	server-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-received *number*

Description	Total received dhcp packets from DHCP server(s) for DHCP Relay
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay statistics server-packets-received *number*
Tree	server-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-relayed *number*

Description	Total relayed dhcp packets from DHCP server(s) towards dhcp client(s)
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay statistics server-packets-relayed *number*
Tree	server-packets-relayed
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Container for tracing DHCPv6 relay operations on the subinterface

Context interface name *string* subinterface index *number* ipv6 dhcp-relay trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description List of events to trace

Context interface name *string* subinterface index *number* ipv6 dhcp-relay trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCPv6 messages sent and received by the subinterface

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcpv6-server

Description Enable the dhcpv6-server context

Context interface name *string* subinterface index *number* ipv6 dhcpv6-server

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Tree	dhcpv6-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enables/Disables DHCPv6 server function on subinterface
Context	interface name *string* subinterface index *number* ipv6 dhcpv6-server admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Details if the dhcp server is operationally available
Context	interface name *string* subinterface index *number* ipv6 dhcpv6-server oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational

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- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor-discovery

Description Enter the neighbor-discovery context

Container for the IPv6 Neighbor Discovery protocol

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery

Tree neighbor-discovery

Configurable True

Platforms Supported on all platforms

debug *keyword*

Description List of events to debug

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery debug *keyword*

Tree debug

Options

- messages

  Capture all neighbor-solicitation and neighbor-advertisement messages sent and received by the subinterface

Configurable True

Platforms Supported on all platforms

duplicate-address-detection *boolean*

Description Enables Duplicate Addres Detection on all tentative addresses

This applies to link-local and global unicast addresses. Only one transmission is done; there are no retransmissions.

Must be true on an IPv6 subinterface that has dhcp-client enabled.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery duplicate-address-detection *boolean*

Tree duplicate-address-detection

Default true

Configurable True

Platforms Supported on all platforms

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evpn

Description Configure which types of ARP or ND entries will be advertised in EVPN MAC/IP routes.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn

Tree evpn

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise route-type *keyword*

Description Enter the advertise list instance

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword*

Tree advertise

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-type *keyword*

Description Controls what type of ARP or ND entries to advertise.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword*

Options

- static
- dynamic
- evpn-local-es

  Advertise ARP/ND entries for evpn local ethernet segment entries

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-less-routing

Description Enables the advertisement of EVPN-IFL host routes for entries derived from ARP/ND entries

When configured, the ARP/ND entries indicated by the parent advertise command are advertised in EVPN MAC/IP Advertisement routes that include not only the label1 and route target of the MAC-VRF network-instance, but also the label2 value and route target of the EVPN interface-less instance in the linked IP-VRF.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword* interface-less-routing

Tree interface-less-routing

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-evpn-instance *reference*

Description The bgp-evpn instance of the IP-VRF network-instance

It indicates from which EVPN interface-less bgp-instance the layer-3 label and route target are taken when advertising the ARP/ND entry in an EVPN MAC/IP Advertisement route.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword* interface-less-routing bgp-evpn-instance *reference*

Tree bgp-evpn-instance

Default 1

Reference network-instance name *string* protocols bgp-vpn bgp-instance id *number*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword* internal-tags

Tree internal-tags

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description Reference to a tag-set defined under routing-policy

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn advertise route-type *keyword* internal-tags set-tag-set *reference*

Tree set-tag-set

Reference routing-policy tag-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

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local-es

Description Enter the local-es context

Configuration of evpn ARP/ND entries for local ethernet segment entries

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn local-es

Tree local-es

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *keyword*

Description Controls how evpn-derived ARP/ND entries are programmed

When set to evpn, the received EVPN MAC/IP Advertisement routes matching a local ethernet segment create an ARP/ND entry of type evpn. When set to evpn-local-es, the ARP/ND corresponding entries are of type evpn-local-es. The evpn-local-es ARP/ND entries then trigger the local router to advertise corresponding MAC/IP Advertisement routes with the proxy bit set if the advertise evpn-local-es command is configured. The evpn-local-es entries are subject to the retention-timer when the evpn route that created the entry is withdrawn.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn local-es entry-type *keyword*

Tree entry-type

Default evpn

Options

- evpn
- evpn-local-es

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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retention-timer *number*

Description	The retention timer in seconds for evpn-local-es entries This timer begins when the EVPN MAC/IP Advertisement route that originated the evpn-local-es route is withdrawn and defines how long the evpn-local-es entry is retained. While the timer is active, the router sends ARP Requests or Neighbor Solicitations for the entry to the local ethernet segment. The entry is converted into a dynamic entry if a response is received. This timer can only be configured when entry-type is evpn-local-es.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery evpn local-es retention-timer *number*
Tree	retention-timer
Range	0 to 65535
Default	0
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-route

Description	Enter the host-route context Configure which types of ARP or ND entries will be populated in the route-table.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route
Tree	host-route
Configurable	True
Platforms	Supported on all platforms

populate route-type *keyword*

Description	Enter the populate list instance
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route populate route-type *keyword*

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Tree	populate
Configurable	True
Platforms	Supported on all platforms

route-type *keyword*

Description	Controls what type of ARP or ND entries generate a host route.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route populate route-type *keyword*
Options	• static • dynamic • evpn • evpn-local-es Generate host route for evpn local ethernet segment entries
Configurable	True
Platforms	Supported on all platforms

datapath-programming *boolean*

Description	When set to true, the host route is programmed in the datapath
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route populate route-type *keyword* datapath-programming *boolean*
Tree	datapath-programming
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route populate route-type *keyword* internal-tags

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Tree	internal-tags
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery host-route populate route-type *keyword* internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

learn-unsolicited *keyword*

Description	Sets if neighbors should be learned from unsolicited neighbor advertisements for global or link local addresses or both.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery learn-unsolicited *keyword*
Tree	learn-unsolicited
Default	none
Options	• none • global • link-local

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- both

Configurable True

Platforms Supported on all platforms

limit

Description Enter the limit context

Container for the configuration of Neighbor-Discovery limit

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery limit

Tree limit

Configurable True

Platforms Supported on all platforms

log-only *boolean*

Description Generate only a log message when limit is reached

When set to true, neighbor entries are still being learned after exceeding the max-entries limit.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery limit log-only *boolean*

Tree log-only

Default false

Configurable True

Platforms Supported on all platforms

max-entries *number*

Description The maximum number of neighbor entries allowed on the subinterface

If not configured, the amount of neighbor entries on the subinterface is only limited by the total amount of entries supported by the router.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery limit max-entries *number*

Tree max-entries

Configurable True

Platforms Supported on all platforms

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warning-threshold-pct *number*

Description	Threshold percentage of the configured maximum number of entries When exceeded, an event is triggered.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery limit warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	1 to 100
Default	90
Units	percent
Configurable	True
Platforms	Supported on all platforms

neighbor ipv6-address *string*

Description	List of static and dynamic ND cache entries that map an IPv6 address to a MAC address
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string*
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

ipv6-address *string*

Description	IPv6 address resolved by the ND cache entry To configure a static neighbor entry a value must be written into this leaf and the link-layer-address leaf.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string*
Configurable	True
Platforms	Supported on all platforms

current-state *keyword*

Description	The Neighbor Unreachability Detection state

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Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* current-state *keyword*
Tree	current-state
Options	• incomplete • reachable • stale • delay • probe
Configurable	False
Platforms	Supported on all platforms

datapath-programming

Description	Enter the datapath-programming context Container for state related to the datapath programming of the ARP or neighbor entry
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* datapath-programming
Tree	datapath-programming
Configurable	False
Platforms	Supported on all platforms

last-failed-complexes *string*

Description	List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* datapath-programming last-failed-complexes *string*
Tree	last-failed-complexes
Configurable	False
Platforms	Supported on all platforms

status *keyword*

Description	The status of the ARP or neighbor entry with respect to datapath programming

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Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* datapath-programming status *keyword*
Tree	status
Options	• success All linecard complexes have reported that the entry was programmed successfully • failed At least one linecard complex reported that the entry was not programmed successfully or else this entry was not even provided to the datapath for programming because the system limit on the number of IPv4 ARP and IPv6 neighbor entries was exceeded • pending The ARP or neighbor entry was provided to the datapath for programming but at least one linecard complex has not provided a status yet.
Configurable	False
Platforms	Supported on all platforms

group-based-policy-tag *number*

Description	The group-based-policy tag value associated to this neighbor entry
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* group-based-policy-tag *number*
Tree	group-based-policy-tag
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

is-router *boolean*

Description	Indicates that the neighbor node claims to be a router (R bit in the Neighbor Advertisement message)
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* is-router *boolean*
Tree	is-router
Configurable	False
Platforms	Supported on all platforms

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link-layer-address *string*

Description	The resolving MAC address of the ND cache entry To configure a static neighbor entry a value must be written into this leaf and the ipv6-address leaf.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	True
Platforms	Supported on all platforms

next-state-time *string*

Description	The date and time when the neighbor state is expected to transition to the next state
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* next-state-time *string*
Tree	next-state-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

origin *keyword*

Description	The origin of the neighbor cache entry.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* origin *keyword*
Tree	origin
Options	• other • static • dynamic • evpn • submgmt • evpn-local-es
Configurable	False
Platforms	Supported on all platforms

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proxy-nd *boolean*

Description When set to true, the router replies with its own MAC to Neighbor Solicitations destined to any host.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery proxy-nd *boolean*

Tree proxy-nd

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reachable-time *number*

Description The period of time that a dynamic IPv6 neighbor cache entry is considered reachable after a reachability confirmation event

After this time expires the neighbor state moves to STALE.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery reachable-time *number*

Tree reachable-time

Range 30 to 3600

Default 30

Units seconds

Configurable True

Platforms Supported on all platforms

stale-time *number*

Description The maximum time that a dynamic IPv6 neighbor cache entry can remain in the STALE state before it is removed

This limit is reached only if no traffic is sent/queued towards the neighbor during the entire duration of the timer.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery stale-time *number*

Tree stale-time

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Range	60 to 65535
Default	14400
Units	seconds
Configurable	True
Platforms	Supported on all platforms

virtual-ipv6-discovery

Description	Enable Virtual IPv6 discovery on the subinterface and configure associated parameters When enabled, the system will attempt to discover the configured virtual IPv6 addresses on the listed bridged subinterfaces.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery
Tree	virtual-ipv6-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address ipv6-address *string*

Description	The list of virtual IPv6 addresses to be discovered on the subinterface.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string*
Tree	address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	640

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ipv6-address *string*

Description The virtual IPv6 address.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-macs *string*

Description List of allowed mac addresses for a discovered virtual IP address.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* allowed-macs *string*

Tree allowed-macs

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 10

probe-bridged-subinterfaces *string*

Description Configure the list of bridged sub-interfaces on the associated MAC-VRF to which the NS probes are sent.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* probe-bridged-subinterfaces *string*

Tree probe-bridged-subinterfaces

String Length 5 to 27

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

probe-interval *number*

Description	Configure the probe interval at which the system sends a Neighbor Solicitation (NS) for the virtual IPv6 address. The default value of zero determines that the system sends a NS for the virtual IPv6 only when the address is configured. The creation of the Neighbor entry for the virtual IPv6 address will in this case rely on the server sending an unsolicited Neighbor Advertisement for the virtual IPv6 address. When the value is set to a non-zero interval, the system sends a periodic NS at the configured interval and irrespective of the Neighbor entry being already created.
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* probe-interval *number*
Tree	probe-interval
Range	0 | 5 to 86400
Default	0
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics for the Virtual IP address

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Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-probe-packets *number*

Description The number of probe packets transmitted for the Virtual IP discovery.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* statistics out-probe-packets *number*

Tree out-probe-packets

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Global statistics for Virtual IP discovery

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-total-probe-packets *number*

Description The number of total probe packets transmitted for Virtual discovery.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery statistics out-total-probe-packets *number*

Tree out-total-probe-packets

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-advertisement

Description Enter the router-advertisement context

Container for configuring IPv6 router discovery options

Context interface name *string* subinterface index *number* ipv6 router-advertisement

Tree router-advertisement

Configurable True

Platforms Supported on all platforms

debug *keyword*

Description List of events to debug

Context interface name *string* subinterface index *number* ipv6 router-advertisement debug *keyword*

Tree debug

Options

- messages

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Capture all router-solicitation and router-advertisement messages sent and received by the subinterface

Configurable True

Platforms Supported on all platforms

router-role

Description Enter the router-role context

IPv6 router advertisement options that apply when the role of the interface is a router interface.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role

Tree router-role

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Administratively enable or disable the sending of router advertisements on the subinterface.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

current-hop-limit *number*

Description The current hop limit to advertise in the router advertisement messages.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role current-hop-limit *number*

Tree current-hop-limit

Default 64

Configurable True

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Platforms Supported on all platforms

dns-options

Description Enter the dns-options context

IPv6 router advertisement options for DNS configuration (RDNSS).

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role dns-options

Tree dns-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rdnss-lifetime *number*

Description The maximum time (in seconds) over which RDNSS addresses may be used for name resolution

If this value is not configured, it will default to using 3 * max-advertisement-interval.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role dns-options rdnss-lifetime *number*

Tree rdnss-lifetime

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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server *string*

Description The list of IPv6 addresses to be sent as the server addresses used for recursive DNS.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role dns-options server *string*

Tree server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

ip-mtu *number*

Description The IP MTU to advertise in the router advertisement messages and that hosts should associate with the link on which these messages are received.

If no value is specified the option is not included.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role ip-mtu *number*

Tree ip-mtu

Range 1280 to 9486

Configurable True

Platforms Supported on all platforms

managed-configuration-flag *boolean*

Description When this is set the M-bit is set in the router advertisement messages, indicating that hosts should use DHCPv6 to obtain IPv6 addresses.

Context interface name *string* subinterface index *number* ipv6 router-advertisement router-role managed-configuration-flag *boolean*

Tree managed-configuration-flag

Default false

Configurable True

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Platforms	Supported on all platforms

max-advertisement-interval *number*

Description	The maximum time between sending router advertisement messages to the all-nodes multicast address. Each subinterface has its own timer. Whenever the timer fires the message is sent and then the timer is reset to a uniformly distributed random value between min-advertisement-interval and max-advertisement-interval. The RA message can be sent before timer expiry in response to a RS message.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role max-advertisement-interval *number*
Tree	max-advertisement-interval
Range	4 to 1800
Default	600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

min-advertisement-interval *number*

Description	The minimum time between sending router advertisement messages to the all-nodes multicast address. Each subinterface has its own timer. Whenever the timer fires the message is sent and then the timer is reset to a uniformly distributed random value between min-advertisement-interval and max-advertisement-interval. The RA message can be sent before timer expiry in response to a RS message.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role min-advertisement-interval *number*
Tree	min-advertisement-interval
Range	3 to 1350
Default	200
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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other-configuration-flag *boolean*

Description	When this is set the O-bit is set in the router advertisement messages, indicating that hosts should use DHCPv6 to obtain other configuration information (besides addresses).
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role other-configuration-flag *boolean*
Tree	other-configuration-flag
Default	false
Configurable	True
Platforms	Supported on all platforms

prefix ipv6-prefix *string*

Description	The list of IPv6 prefixes to advertise in the router advertisement messages.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms
Max. Elements	16

ipv6-prefix *string*

Description	An IPv6 global unicast address prefix.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string*
Configurable	True
Platforms	Supported on all platforms

autonomous-flag *boolean*

Description	When this is set in the prefix information option hosts can use the prefix for stateless address autoconfiguration (SLAAC).
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string* autonomous-flag *boolean*
Tree	autonomous-flag
Default	true

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Configurable	True
Platforms	Supported on all platforms

on-link-flag *boolean*

Description	When this is set in the prefix information option hosts can use the prefix for on-link determination.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string* on-link-flag *boolean*
Tree	on-link-flag
Default	true
Configurable	True
Platforms	Supported on all platforms

preferred-lifetime *(keyword | number)*

Description	The length of time in seconds (relative to the time the packet is sent) that addresses generated from the prefix via stateless address autoconfiguration remain preferred.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string* preferred-lifetime *(keyword | number)*
Tree	preferred-lifetime
Default	604800
Units	seconds
Options	• infinite
Configurable	True
Platforms	Supported on all platforms

valid-lifetime *(keyword | number)*

Description	The length of time in seconds (relative to the time the packet is sent) that the prefix is valid for the purpose of on-link determination.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role prefix ipv6-prefix *string* valid-lifetime *(keyword | number)*
Tree	valid-lifetime
Default	2592000
Units	seconds

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Options	• infinite
Configurable	True
Platforms	Supported on all platforms

reachable-time *number*

Description	The time, in milliseconds, that is advertised as the reachable time in RA messages and that hosts use for the ICMPv6 Neighbor Unreachability Detection algorithm. A value of zero means unspecified by this router.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role reachable-time *number*
Tree	reachable-time
Range	0 to 3600000
Default	0
Configurable	True
Platforms	Supported on all platforms

retransmit-time *number*

Description	The time, in milliseconds, that is advertised as the retrans-timer in RA messages and that hosts use for address resolution and the Neighbor Unreachability Detection algorithm. It represents the time between retransmitted NS messages. A value of zero means unspecified by this router.
Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role retransmit-time *number*
Tree	retransmit-time
Range	0 to 1800000
Default	0
Configurable	True
Platforms	Supported on all platforms

router-lifetime *number*

Description	The lifetime in seconds that is advertised as the router lifetime in RA messages. This indicates the time period for which the advertising router can be used as a default router/gateway. A value of 0 means the router should not be used as a default gateway.

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Context	interface name *string* subinterface index *number* ipv6 router-advertisement router-role router-lifetime *number*
Tree	router-lifetime
Range	0 to 9000
Default	1800
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Container for subinterface statistics, including all IPv4, IPv6 and MPLS packets belonging to a routed subinterface, or including just one of these protocols on a routed subinterface, or for all frames on a bridged subinterface
Context	interface name *string* subinterface index *number* ipv6 statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-discarded-packets *number*

Description	The total number of input packets dropped due to operator preference, control, or policy Includes: In an MPLS context, this includes the total number of MPLS packets that were dropped because they were received with forwarded top label having an MPLS TTL value of 1
Context	interface name *string* subinterface index *number* ipv6 statistics in-discarded-packets *number*
Tree	in-discarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-error-packets *number*

Description The total number of input packets discarded due to header field errors, counting transit and terminating traffic

Includes hop-count/TTL/HopLimit exceeded on transit, bad version, IHL/length/checksum, address errors (including IPv4 Class E destination 240.0.0.0/4), truncated packets, and IPv6 Beyond Scope drops for transit packets with a link-local source.

Only errors detected in the forwarding pipeline are counted here. Header field errors that the control plane detects in a packet it has already accepted, such as an unsupported IPv4 option or an invalid IPv6 extension header, option or fragment, are counted in in-terminated-packets.

A Next Header value of 59 (No Next Header) is not an error.

In an MPLS context, the total number of MPLS packets that were dropped because:

Context interface name *string* subinterface index *number* ipv6 statistics in-error-packets *number*

Tree in-error-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-forwarded-octets *number*

Description The number of octets in packets received on this subinterface counted in in-forwarded-packets

Context interface name *string* subinterface index *number* ipv6 statistics in-forwarded-octets *number*

Tree in-forwarded-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-forwarded-packets *number*

Description The number of packets received on this subinterface for which the router was not the final destination and for which the router attempted to find a route to forward them to that final destination

Includes non-terminating IPv4 packets with options, non-terminating IPv6 packets with Routing, Destination Options or Fragment headers, packets that trigger ICMP/ICMPv6 redirect messages, and packets extracted to the CPM for ARP/ND resolution of a next-hop or locally connected host.

On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted for option inspection and counted in in-terminated-packets instead.

Context interface name *string* subinterface index *number* ipv6 statistics in-forwarded-packets *number*

Tree in-forwarded-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-matched-ra-packets *number*

Description The total number of IPv6 packets matched with applied RA-Guard policy

Context interface name *string* subinterface index *number* ipv6 statistics in-matched-ra-packets *number*

Tree in-matched-ra-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-octets *number*

Description The total number of octets received in input packets, counting transit and terminating traffic

Context interface name *string* subinterface index *number* ipv6 statistics in-octets *number*

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Tree	in-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-packets *number*

Description	The total number of input packets received, counting transit and terminating traffic This equals the sum of: in-error-packets in-discarded-packets in-terminated-packets in-forwarded-packets
Context	interface name *string* subinterface index *number* ipv6 statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-terminated-octets *number*

Description	The total number of octets in packets that were received on this subinterface and counted in in-terminated-packets
Context	interface name *string* subinterface index *number* ipv6 statistics in-terminated-octets *number*
Tree	in-terminated-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-terminated-packets *number*

Description The total number of input packets extracted to the control plane after CPM filter accept

Locally destined (terminating) packets are counted here. Transit IPv4 packets with options are forwarded without extraction and counted in in-forwarded-packets, as are transit IPv6 packets with Routing, Destination Options or Fragment headers. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted so that the options can be inspected, is counted here, and is forwarded by the control plane when the options are valid.

A packet counted here stays on this counter even when the control plane subsequently discards it; the count is never moved to in-discarded-packets or in-error-packets. Such control plane discards include:

Context interface name *string* subinterface index *number* ipv6 statistics in-terminated-packets *number*

Tree in-terminated-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the subinterface counters were cleared

Context interface name *string* subinterface index *number* ipv6 statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-discarded-packets *number*

Description The total number of packets, originating and transit, that should have been sent out this subinterface but were dropped

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This includes IP packets dropped by egress interface ACL drop action.

On 7220 platforms, which do not support out-error-packets, this also includes IP and MPLS packets dropped because the egress IP MTU or MPLS MTU was exceeded. Those MTU-exceeded drops are not counted on 7215 IXS-A1.

Context interface name *string* subinterface index *number* ipv6 statistics out-discarded-packets *number*

Tree out-discarded-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-error-packets *number*

Description The number of packets, originating and transit, for which this router was successful in finding a path to their final destination through this subinterface but an error prevented their transmission

On 7250 IXR systems this is incremented when the IPv4 packet size exceeds the IP MTU and fragmentation was not allowed or not supported. It is also incremented when the MPLS packet size exceeds the MPLS MTU of the subinterface. On platforms that do not support this counter the same MTU-exceeded drops are counted in out-discarded-packets.

Context interface name *string* subinterface index *number* ipv6 statistics out-error-packets *number*

Tree out-error-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-octets *number*

Description The number of octets in transit packets which the router attempted to forward out this subinterface

Context interface name *string* subinterface index *number* ipv6 statistics out-forwarded-octets *number*

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Tree	out-forwarded-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-packets *number*

Description	The number of transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv6 statistics out-forwarded-packets *number*
Tree	out-forwarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-octets *number*

Description	The total number of octets in packets delivered to the lower layers for transmission
Context	interface name *string* subinterface index *number* ipv6 statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-octets *number*

Description	The number of octets in packets which originated on the CPM and which the router attempted to forward out this subinterface

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Context	interface name *string* subinterface index *number* ipv6 statistics out-originated-octets *number*
Tree	out-originated-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-packets *number*

Description	The number of packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* ipv6 statistics out-originated-packets *number*
Tree	out-originated-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-packets *number*

Description	The total number of packets that this router supplied to the lower layers for transmission This equals the sum of: out-error-packets out-discarded-packets out-originated-packets out-forwarded-packets
Context	interface name *string* subinterface index *number* ipv6 statistics out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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l2-mtu *number*

Description	Layer-2 MTU of the subinterface in bytes. Includes the Ethernet header and VLAN tags, and excludes 4-bytes FCS. L2 MTU specifies the maximum sized Ethernet frame that can be transmitted on the subinterface. If a frame exceeds this size it is discarded. If the l2-mtu of the subinterface exceeds the port-mtu of the associated interface, the subinterface will remain operationally down. The default value for a subinterface is taken from /system/mtu/default-l2-mtu. The L2 MTU is only configurable for bridged and capture subinterfaces. The 7220 IXR systems support a maximum L2 MTU of 9412 bytes and minimum of 1500 bytes. The VSRL system supports a maximum L2 MTU of 9500 and minimum of 1450 bytes. All other systems support a maximum L2 MTU of 9500 and minimum of 1500 bytes.
Context	interface name *string* subinterface index *number* l2-mtu *number*
Tree	l2-mtu
Range	1450 to 9500
Units	bytes
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description	The date and time of the most recent change to the subinterface state
Context	interface name *string* subinterface index *number* last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

local-mirror-destination

Description	Container for options related to local mirror destination

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Context interface name *string* subinterface index *number* local-mirror-destination

Tree local-mirror-destination

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description The configurable state of the local mirror destination

Context interface name *string* subinterface index *number* local-mirror-destination admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the local mirror destination

Context interface name *string* subinterface index *number* local-mirror-destination oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

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Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enter the mpls context

Container for MPLS configuration and state at the subinterface level

Context interface name *string* subinterface index *number* mpls

Tree mpls

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Container for subinterface statistics, including all IPv4, IPv6 and MPLS packets belonging to a routed subinterface, or including just one of these protocols on a routed subinterface, or for all frames on a bridged subinterface
Context	interface name *string* subinterface index *number* mpls statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-discarded-packets *number*

Description	The total number of input packets dropped due to operator preference, control, or policy Includes: In an MPLS context, this includes the total number of MPLS packets that were dropped because they were received with forwarded top label having an MPLS TTL value of 1
Context	interface name *string* subinterface index *number* mpls statistics in-discarded-packets *number*
Tree	in-discarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-error-packets *number*

Description	The total number of input packets discarded due to header field errors, counting transit and terminating traffic

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Includes hop-count/TTL/HopLimit exceeded on transit, bad version, IHL/length/checksum, address errors (including IPv4 Class E destination 240.0.0.0/4), truncated packets, and IPv6 Beyond Scope drops for transit packets with a link-local source.

Only errors detected in the forwarding pipeline are counted here. Header field errors that the control plane detects in a packet it has already accepted, such as an unsupported IPv4 option or an invalid IPv6 extension header, option or fragment, are counted in in-terminated-packets.

A Next Header value of 59 (No Next Header) is not an error.

In an MPLS context, the total number of MPLS packets that were dropped because:

Context interface name *string* subinterface index *number* mpls statistics in-error-packets *number*

Tree in-error-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-forwarded-octets *number*

Description The number of octets in packets received on this subinterface counted in in-forwarded-packets

Context interface name *string* subinterface index *number* mpls statistics in-forwarded-octets *number*

Tree in-forwarded-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-forwarded-packets *number*

Description The number of packets received on this subinterface for which the router was not the final destination and for which the router attempted to find a route to forward them to that final destination

Includes non-terminating IPv4 packets with options, non-terminating IPv6 packets with Routing, Destination Options or Fragment headers, packets that

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trigger ICMP/ICMPv6 redirect messages, and packets extracted to the CPM for ARP/ND resolution of a next-hop or locally connected host.

On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted for option inspection and counted in in-terminated-packets instead.

Context interface name *string* subinterface index *number* mpls statistics in-forwarded-packets *number*

Tree in-forwarded-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-matched-ra-packets *number*

Description The total number of IPv6 packets matched with applied RA-Guard policy

Context interface name *string* subinterface index *number* mpls statistics in-matched-ra-packets *number*

Tree in-matched-ra-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-octets *number*

Description The total number of octets received in input packets, counting transit and terminating traffic

Context interface name *string* subinterface index *number* mpls statistics in-octets *number*

Tree in-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-packets *number*

Description The total number of input packets received, counting transit and terminating traffic

This equals the sum of: in-error-packets in-discarded-packets in-terminated-packets in-forwarded-packets

Context interface name *string* subinterface index *number* mpls statistics in-packets *number*

Tree in-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-terminated-octets *number*

Description The total number of octets in packets that were received on this subinterface and counted in in-terminated-packets

Context interface name *string* subinterface index *number* mpls statistics in-terminated-octets *number*

Tree in-terminated-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-terminated-packets *number*

Description The total number of input packets extracted to the control plane after CPM filter accept

Locally destined (terminating) packets are counted here. Transit IPv4 packets with options are forwarded without extraction and counted in in-forwarded-packets, as are transit IPv6 packets with Routing, Destination Options or Fragment headers. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted so that the options can be inspected, is counted here, and is forwarded by the control plane when the options are valid.

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A packet counted here stays on this counter even when the control plane subsequently discards it; the count is never moved to in-discarded-packets or in-error-packets. Such control plane discards include:

Context interface name *string* subinterface index *number* mpls statistics in-terminated-packets *number*

Tree in-terminated-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the subinterface counters were cleared

Context interface name *string* subinterface index *number* mpls statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-discarded-packets *number*

Description The total number of packets, originating and transit, that should have been sent out this subinterface but were dropped

This includes IP packets dropped by egress interface ACL drop action.

On 7220 platforms, which do not support out-error-packets, this also includes IP and MPLS packets dropped because the egress IP MTU or MPLS MTU was exceeded. Those MTU-exceeded drops are not counted on 7215 IXS-A1.

Context interface name *string* subinterface index *number* mpls statistics out-discarded-packets *number*

Tree out-discarded-packets

Default 0

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-error-packets *number*

Description	The number of packets, originating and transit, for which this router was successful in finding a path to their final destination through this subinterface but an error prevented their transmission On 7250 IXR systems this is incremented when the IPv4 packet size exceeds the IP MTU and fragmentation was not allowed or not supported. It is also incremented when the MPLS packet size exceeds the MPLS MTU of the subinterface. On platforms that do not support this counter the same MTU-exceeded drops are counted in out-discarded-packets.
Context	interface name *string* subinterface index *number* mpls statistics out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-octets *number*

Description	The number of octets in transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* mpls statistics out-forwarded-octets *number*
Tree	out-forwarded-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-packets *number*

Description	The number of transit packets which the router attempted to forward out this subinterface

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Context	interface name *string* subinterface index *number* mpls statistics out-forwarded-packets *number*
Tree	out-forwarded-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-octets *number*

Description	The total number of octets in packets delivered to the lower layers for transmission
Context	interface name *string* subinterface index *number* mpls statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-octets *number*

Description	The number of octets in packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* mpls statistics out-originated-octets *number*
Tree	out-originated-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-originated-packets *number*

Description	The number of packets which originated on the CPM and which the router attempted to forward out this subinterface

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Context	interface name *string* subinterface index *number* mpls statistics out-originated-packets *number*
Tree	out-originated-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-packets *number*

Description	The total number of packets that this router supplied to the lower layers for transmission This equals the sum of: out-error-packets out-discarded-packets out-originated-packets out-forwarded-packets
Context	interface name *string* subinterface index *number* mpls statistics out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-mtu *number*

Description	MPLS MTU of the subinterface in bytes, including the transmitted label stack. MPLS MTU specifies the maximum sized MPLS packet that can be transmitted on the subinterface. If an MPLS packet containing any payload exceeds this size then it is dropped. If the payload of the dropped packet is IPv4 or IPv6 then this may also result in the generation of an ICMP error message that is either tunneled or sent back to the source. The default MPLS MTU for a subinterface is taken from /system/mtu/default-mpls-mtu. The MPLS MTU is not configurable for subinterfaces of loopback interfaces. Each 7250 IXR IMM supports a maximum of 4 different MPLS MTU values.
Context	interface name *string* subinterface index *number* mpls-mtu *number*
Tree	mpls-mtu
Range	1284 to 9496

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Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The system assigned name of the subinterface. It is formed by taking the base interface name and appending a dot (.) and the subinterface index number. For example, ethernet-2/1.0
Context	interface name *string* subinterface index *number* name *string*
Tree	name
Configurable	False
Platforms	Supported on all platforms

oper-down-reason *keyword*

Description	The first (and possibly only) reason for the subinterface being operationally down
Context	interface name *string* subinterface index *number* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• admin-disabled • port-down • ip-mtu-resource-exceeded • mpls-mtu-resource-exceeded • ip-mtu-too-large • mpls-mtu-too-large • l2-mtu-too-large • no-ip-config • ip-mtu-larger-than-oper-mac-vrf-mtu • mac-address-not-programmed • missing-xdp-state • no-underlay-egress-next-hop-resources • cfm-ccm-defect • no-irb-hardware-resources • individual-lacp-fallback-inactive

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- other

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of the subinterface

Context interface name *string* subinterface index *number* oper-state *keyword*

Tree oper-state

Options
- up
- down

Configurable False

Platforms Supported on all platforms

ra-guard

Description Enable the ra-guard context

Context interface name *string* subinterface index *number* ra-guard

Tree ra-guard

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

policy *reference*

Description Reference to RA Guard Policy to apply to the associated subinterface

Context interface name *string* subinterface index *number* ra-guard policy *reference*

Tree policy

Reference system ra-guard-policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

vlan-list vlan-id *number*

Description List of VLAN IDs that the RA policy should be matched against

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Context	interface name *string* subinterface index *number* ra-guard vlan-list vlan-id *number*
Tree	vlan-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

vlan-id *number*

Description	Enter the vlan-id context
Context	interface name *string* subinterface index *number* ra-guard vlan-list vlan-id *number*
Range	0 to 4095
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context Container for subinterface statistics, including all IPv4, IPv6 and MPLS packets belonging to a routed subinterface, or including just one of these protocols on a routed subinterface, or for all frames on a bridged subinterface
Context	interface name *string* subinterface index *number* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

in-discarded-packets *number*

Description	The total number of input packets dropped due to operator preference, control, or policy Includes: In an MPLS context, this includes the total number of MPLS packets that were dropped because they were received with forwarded top label having an MPLS TTL value of 1
Context	interface name *string* subinterface index *number* statistics in-discarded-packets *number*

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Tree	in-discarded-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-error-packets *number*

Description	The total number of input packets discarded due to header field errors, counting transit and terminating traffic Includes hop-count/TTL/HopLimit exceeded on transit, bad version, IHL/length/checksum, address errors (including IPv4 Class E destination 240.0.0.0/4), truncated packets, and IPv6 Beyond Scope drops for transit packets with a link-local source. Only errors detected in the forwarding pipeline are counted here. Header field errors that the control plane detects in a packet it has already accepted, such as an unsupported IPv4 option or an invalid IPv6 extension header, option or fragment, are counted in in-terminated-packets. A Next Header value of 59 (No Next Header) is not an error. In an MPLS context, the total number of MPLS packets that were dropped because:
Context	interface name *string* subinterface index *number* statistics in-error-packets *number*
Tree	in-error-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-forwarded-octets *number*

Description	The number of octets in packets received on this subinterface counted in in-forwarded-packets
Context	interface name *string* subinterface index *number* statistics in-forwarded-octets *number*
Tree	in-forwarded-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

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in-forwarded-packets *number*

Description	The number of packets received on this subinterface for which the router was not the final destination and for which the router attempted to find a route to forward them to that final destination Includes non-terminating IPv4 packets with options, non-terminating IPv6 packets with Routing, Destination Options or Fragment headers, packets that trigger ICMP/ICMPv6 redirect messages, and packets extracted to the CPM for ARP/ND resolution of a next-hop or locally connected host. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted for option inspection and counted in in-terminated-packets instead.
Context	interface name *string* subinterface index *number* statistics in-forwarded-packets *number*
Tree	in-forwarded-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-matched-ra-packets *number*

Description	The total number of IPv6 packets matched with applied RA-Guard policy
Context	interface name *string* subinterface index *number* statistics in-matched-ra-packets *number*
Tree	in-matched-ra-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-octets *number*

Description	The total number of octets received in input packets, counting transit and terminating traffic
Context	interface name *string* subinterface index *number* statistics in-octets *number*
Tree	in-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

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in-packets *number*

Description	The total number of input packets received, counting transit and terminating traffic This equals the sum of: in-error-packets in-discarded-packets in-terminated-packets in-forwarded-packets
Context	interface name *string* subinterface index *number* statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-terminated-octets *number*

Description	The total number of octets in packets that were received on this subinterface and counted in in-terminated-packets
Context	interface name *string* subinterface index *number* statistics in-terminated-octets *number*
Tree	in-terminated-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-terminated-packets *number*

Description	The total number of input packets extracted to the control plane after CPM filter accept Locally destined (terminating) packets are counted here. Transit IPv4 packets with options are forwarded without extraction and counted in in-forwarded-packets, as are transit IPv6 packets with Routing, Destination Options or Fragment headers. On 7250 IXR systems a transit IPv6 packet whose first Next Header is Hop-by-Hop Options is extracted so that the options can be inspected, is counted here, and is forwarded by the control plane when the options are valid. A packet counted here stays on this counter even when the control plane subsequently discards it; the count is never moved to in-discarded-packets or in-error-packets. Such control plane discards include:

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Context	interface name *string* subinterface index *number* statistics in-terminated-packets *number*
Tree	in-terminated-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the subinterface counters were cleared
Context	interface name *string* subinterface index *number* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

out-discarded-packets *number*

Description	The total number of packets, originating and transit, that should have been sent out this subinterface but were dropped This includes IP packets dropped by egress interface ACL drop action. On 7220 platforms, which do not support out-error-packets, this also includes IP and MPLS packets dropped because the egress IP MTU or MPLS MTU was exceeded. Those MTU-exceeded drops are not counted on 7215 IXS-A1.
Context	interface name *string* subinterface index *number* statistics out-discarded-packets *number*
Tree	out-discarded-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

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out-error-packets *number*

Description	The number of packets, originating and transit, for which this router was successful in finding a path to their final destination through this subinterface but an error prevented their transmission On 7250 IXR systems this is incremented when the IPv4 packet size exceeds the IP MTU and fragmentation was not allowed or not supported. It is also incremented when the MPLS packet size exceeds the MPLS MTU of the subinterface. On platforms that do not support this counter the same MTU-exceeded drops are counted in out-discarded-packets.
Context	interface name *string* subinterface index *number* statistics out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-forwarded-octets *number*

Description	The number of octets in transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* statistics out-forwarded-octets *number*
Tree	out-forwarded-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-forwarded-packets *number*

Description	The number of transit packets which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* statistics out-forwarded-packets *number*
Tree	out-forwarded-packets
Default	0
Configurable	False

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Platforms	Supported on all platforms

out-octets *number*

Description	The total number of octets in packets delivered to the lower layers for transmission
Context	interface name *string* subinterface index *number* statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-originated-octets *number*

Description	The number of octets in packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* statistics out-originated-octets *number*
Tree	out-originated-octets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-originated-packets *number*

Description	The number of packets which originated on the CPM and which the router attempted to forward out this subinterface
Context	interface name *string* subinterface index *number* statistics out-originated-packets *number*
Tree	out-originated-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-packets *number*

Description	The total number of packets that this router supplied to the lower layers for transmission

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This equals the sum of: out-error-packets out-discarded-packets out-originated-packets out-forwarded-packets

Context interface name *string* subinterface index *number* statistics out-packets *number*

Tree out-packets

Default 0

Configurable False

Platforms Supported on all platforms

type *identityref*

Description Indicates the context in which the ethernet subinterface will be used

Context interface name *string* subinterface index *number* type *identityref*

Tree type

Options

- routed

  Indicates subinterface is used in a routed context
- bridged

  Indicates subinterface is used in a bridged context
- local-mirror-dest

  Indicates subinterface is used in a mirroring destination SPAN context
- submgmt-access

  Indicates subinterface is used in a subscriber management context
- capture

  Indicates subinterface is used in a subscriber management capture context

Configurable True

Platforms Supported on all platforms

unidirectional-link-delay

Description Enter the unidirectional-link-delay context

Unidirectional link delay configuration and state related to subinterface

Context interface name *string* subinterface index *number* unidirectional-link-delay

Tree unidirectional-link-delay

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reported-dynamic-delay *(number | keyword)*

Description	Indicates the last delay measurement reported to the routing engine
Context	interface name *string* subinterface index *number* unidirectional-link-delay last-reported-dynamic-delay *(number | keyword)*
Tree	last-reported-dynamic-delay
Range	0 to 2147483647
Units	microseconds
Options	• none
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-delay *(number | keyword)*

Description	A statically configured unidirectional delay value that can be advertised as an interface attribute by an IGP
Context	interface name *string* subinterface index *number* unidirectional-link-delay static-delay *(number | keyword)*
Tree	static-delay
Range	1 to 16777215
Default	none
Units	microseconds
Options	• none
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

uuid *string*

Description	The system-generated or user-configured UUID for the sub interface
Context	interface name *string* subinterface index *number* uuid *string*

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Tree	uuid
Configurable	True
Platforms	vsrl and future-0-0

vlan

Description	Enter the vlan context Parameters for VLAN definition under SRL interfaces
Context	interface name *string* subinterface index *number* vlan
Tree	vlan
Configurable	True
Platforms	Supported on all platforms

egress-mapping

Description	Enter the egress-mapping context
Context	interface name *string* subinterface index *number* vlan egress-mapping
Tree	egress-mapping
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inner-tpid *identityref*

Description	Optionally override the inner tag protocol identifier field (TPID) The configured tpid is used by the action configured by 'vlan-stack-action' when modifying the VLAN stack.
Context	interface name *string* subinterface index *number* vlan egress-mapping inner-tpid *identityref*
Tree	inner-tpid
Options	• TPID_0X8100 Default TPID value for 802.1q single-tagged VLANs • TPID_0X88A8 TPID value for 802.1ad provider bridging, QinQ or stacked VLANs • TPID_0X9100 Alternate TPID value

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- TPID_0X9200

  Alternate TPID value

- TPID_ANY

  A wildcard that matches any of the generally used TPID values for singly- or multiply-tagged VLANs Equivalent to matching any of TPID_0X8100, TPID_0X88A8, TPID_0X9100 and TPID_0x9200. This value is only applicable where the TPID of a packet is being matched.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inner-vlan-id *number*

Description Optionally specifies the inner VLAN tag identifier

The vlan-id is used by the action configured in 'vlan-stack-action'. For example, if the action is 'PUSH-PUSH' then this VLAN identifier is added to the stack as inner vlan-id. This value must be non-zero if the 'vlan-stack-action' requires the addition or replacement of an inner VLAN tag.

Context interface name *string* subinterface index *number* vlan egress-mapping inner-vlan-id *number*

Tree inner-vlan-id

Range 1 to 4094

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-tpid *identityref*

Description Optionally override the outer tag protocol identifier field (TPID)

The configured tpid is used by the action configured by 'vlan-stack-action' when modifying the VLAN stack.

Context interface name *string* subinterface index *number* vlan egress-mapping outer-tpid *identityref*

Tree outer-tpid

Options

- TPID_0X8100

  Default TPID value for 802.1q single-tagged VLANs

- TPID_0X88A8

  TPID value for 802.1ad provider bridging, QinQ or stacked VLANs

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- TPID_0X9100

  Alternate TPID value
- TPID_0X9200

  Alternate TPID value
- TPID_ANY

  A wildcard that matches any of the generally used TPID values for singly- or multiply-tagged VLANs Equivalent to matching any of TPID_0X8100, TPID_0X88A8, TPID_0X9100 and TPID_0x9200. This value is only applicable where the TPID of a packet is being matched.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-vlan-id *number*

Description Optionally specifies the outer VLAN tag identifier

The vlan-id is used by the action configured in 'vlan-stack-action'. For example, if the action is 'PUSH' then this VLAN identifier is added to the stack. This value must be non-zero if the 'vlan-stack-action' requires the addition or replacement of a VLAN tag.

Context interface name *string* subinterface index *number* vlan egress-mapping outer-vlan-id *number*

Tree outer-vlan-id

Range 1 to 4094

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan-stack-action *keyword*

Description The action to take on the VLAN stack of a packet

This is optionally used in conjunction with adjacent leaves to override the values of the action.

Context interface name *string* subinterface index *number* vlan egress-mapping vlan-stack-action *keyword*

Tree vlan-stack-action

Options

- PUSH

  Push a VLAN onto the VLAN stack

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- POP

  Pop the outer VLAN tag from the VLAN stack
- SWAP

  Swap the outer VLAN tag of the VLAN stack
- PRESERVE

  Keep existing tags and treat them as payload
- PUSH-PUSH

  Push two VLAN tags onto the VLAN stack
- POP-POP

  Pop two VLAN tags from the VLAN stack
- POP-SWAP

  Remove the outer tag and replace the inner tag
- SWAP-SWAP

  Replace the outer tag and inner tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encap

Description Enter the encap context

VLAN match parmeters for the associated subinterface

Context interface name *string* subinterface index *number* vlan encap

Tree encap

Configurable True

Platforms Supported on all platforms

double-tagged

Description When present, double-tagged frames with a specific, non-zero, outer and inner VLAN ID values are associated to the subinterface

By default, the specific configured vlan-id tags are stripped at ingress and pushed on egress.

Context interface name *string* subinterface index *number* vlan encap double-tagged

Tree double-tagged

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inner-vlan-id *(number | keyword)*

Description	Inner VLAN tag identifier for double-tagged packets
Context	interface name *string* subinterface index *number* vlan encap double-tagged inner-vlan-id *(number | keyword)*
Tree	inner-vlan-id
Range	1 to 4094
Options	• any • optional
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-vlan-id *(number | keyword)*

Description	Outer VLAN tag identifier for double-tagged packets
Context	interface name *string* subinterface index *number* vlan encap double-tagged outer-vlan-id *(number | keyword)*
Tree	outer-vlan-id
Range	1 to 4094
Options	• any • optional
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

single-tagged

Description	When present, tagged frames with a specific, non-zero, outer VLAN ID are associated to the subinterface

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The outer VLAN-ID tag is considered service delimiting and it is by default stripped at ingress and restored/added on egress.

Context interface name *string* subinterface index *number* vlan encap single-tagged

Tree single-tagged

Configurable True

Platforms Supported on all platforms

vlan-id *(number | keyword)*

Description VLAN identifier for single-tagged packets

Context interface name *string* subinterface index *number* vlan encap single-tagged vlan-id *(number | keyword)*

Tree vlan-id

Range 1 to 4094

Options

- optional
- any

Configurable True

Platforms Supported on all platforms

single-tagged-range

Description When present, tagged frames with a specific, non-zero, outer VLAN ID contained in a specified set of range are associated to the subinterface

The outer VLAN ID tag of the frame is not stripped off on ingress, and no tag is pushed on egress.

Context interface name *string* subinterface index *number* vlan encap single-tagged-range

Tree single-tagged-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-vlan-id range-low-vlan-id *number*

Description Enter the low-vlan-id list instance

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Context	interface name *string* subinterface index *number* vlan encap single-tagged-range low-vlan-id range-low-vlan-id *number*
Tree	low-vlan-id
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8
Min. Elements	1

range-low-vlan-id *number*

Description	The low-value VLAN identifier in a range for single-tagged packets The range is matched inclusively.
Context	interface name *string* subinterface index *number* vlan encap single-tagged-range low-vlan-id range-low-vlan-id *number*
Range	1 to 4094
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-vlan-id *number*

Description	The high-value VLAN identifier in a range for single-tagged packets The range is matched inclusively.
Context	interface name *string* subinterface index *number* vlan encap single-tagged-range low-vlan-id range-low-vlan-id *number* high-vlan-id *number*
Tree	high-vlan-id
Range	1 to 4094
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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untagged

Description When present, untagged frames and VLAN ID 0 priority tagged frames are associated to the subinterface when it belongs to an interface with vlan-tagging enabled

Context interface name *string* subinterface index *number* vlan encap untagged

Tree untagged

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mapping

Description Enter the ingress-mapping context

Context interface name *string* subinterface index *number* vlan ingress-mapping

Tree ingress-mapping

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inner-tpid *identityref*

Description Optionally override the inner tag protocol identifier field (TPID)

The configured tpid is used by the action configured by 'vlan-stack-action' when modifying the VLAN stack.

Context interface name *string* subinterface index *number* vlan ingress-mapping inner-tpid *identityref*

Tree inner-tpid

Options

- TPID_0X8100

  Default TPID value for 802.1q single-tagged VLANs
- TPID_0X88A8

  TPID value for 802.1ad provider bridging, QinQ or stacked VLANs
- TPID_0X9100

  Alternate TPID value

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- TPID_0X9200

  Alternate TPID value

- TPID_ANY

  A wildcard that matches any of the generally used TPID values for singly- or multiply-tagged VLANs Equivalent to matching any of TPID_0X8100, TPID_0X88A8, TPID_0X9100 and TPID_0x9200. This value is only applicable where the TPID of a packet is being matched.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inner-vlan-id *number*

Description Optionally specifies the inner VLAN tag identifier

The vlan-id is used by the action configured in 'vlan-stack-action'. For example, if the action is 'PUSH-PUSH' then this VLAN identifier is added to the stack as inner vlan-id. This value must be non-zero if the 'vlan-stack-action' is one 'PUSH-PUSH' or 'POP-SWAP'.

Context interface name *string* subinterface index *number* vlan ingress-mapping inner-vlan-id *number*

Tree inner-vlan-id

Range 1 to 4094

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-tpid *identityref*

Description Optionally override the outer tag protocol identifier field (TPID)

The configured tpid is used by the action configured by 'vlan-stack-action' when modifying the VLAN stack.

Context interface name *string* subinterface index *number* vlan ingress-mapping outer-tpid *identityref*

Tree outer-tpid

Options

- TPID_0X8100

  Default TPID value for 802.1q single-tagged VLANs

- TPID_0X88A8

  TPID value for 802.1ad provider bridging, QinQ or stacked VLANs

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- TPID_0X9100

  Alternate TPID value
- TPID_0X9200

  Alternate TPID value
- TPID_ANY

  A wildcard that matches any of the generally used TPID values for singly- or multiply-tagged VLANs Equivalent to matching any of TPID_0X8100, TPID_0X88A8, TPID_0X9100 and TPID_0x9200. This value is only applicable where the TPID of a packet is being matched.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-vlan-id *number*

Description Optionally specifies the outer VLAN tag identifier

The vlan-id is used by the action configured in 'vlan-stack-action'. For example, if the action is 'PUSH' then this VLAN identifier is added to the stack. This value must be non-zero if the 'vlan-stack-action' requires the addition or replacement of a VLAN tag.

Context interface name *string* subinterface index *number* vlan ingress-mapping outer-vlan-id *number*

Tree outer-vlan-id

Range 1 to 4094

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan-stack-action *keyword*

Description The action to take on the VLAN stack of a packet

This is optionally used in conjunction with adjacent leaves to override the values of the action.

Context interface name *string* subinterface index *number* vlan ingress-mapping vlan-stack-action *keyword*

Tree vlan-stack-action

Options

- PUSH

  Push a VLAN onto the VLAN stack

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- POP

  Pop the outer VLAN tag from the VLAN stack
- SWAP

  Swap the outer VLAN tag of the VLAN stack
- PRESERVE

  Keep existing tags and treat them as payload
- PUSH-PUSH

  Push two VLAN tags onto the VLAN stack
- POP-POP

  Pop two VLAN tags from the VLAN stack
- POP-SWAP

  Remove the outer tag and replace the inner tag
- SWAP-SWAP

  Replace the outer tag and inner tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopback-mode *keyword*

Description Loopback mode for the VLAN sub-interface

Context interface name *string* subinterface index *number* vlan loopback-mode *keyword*

Tree loopback-mode

Options

- none

  No loopback is applied
- facility

  A loopback which directs traffic received from an external source on the port back out the transmit side of the same port.
- terminal

  A loopback which directs traffic normally transmitted on the port back into the switch as if received on the same port from an external source

  On some systems this is also called local loopback.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

swap-src-dst-mac *boolean*

Description Enable swapping source and destination MAC addresses

Context interface name *string* subinterface index *number* vlan swap-src-dst-mac *boolean*

Tree swap-src-dst-mac

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan-discovery

Description When present the subinterface should perform vlan discovery by broadcasting dhcp message on all vlanids

Context interface name *string* subinterface index *number* vlan vlan-discovery

Tree vlan-discovery

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Types of addresses over which vlan discovery is performed

Context interface name *string* subinterface index *number* vlan vlan-discovery type *keyword*

Tree type

Default IPv4v6

Options

- IPv4

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Perform discovery only over IPV4

- IPv6

  Perform discovery only over IPV4

- IPv4v6

  Perform discovery only over both IPV4 and IPV6

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

swap-src-dst-mac *boolean*

Description Enable swapping source and destination MAC addresses

Context interface name *string* swap-src-dst-mac *boolean*

Tree swap-src-dst-mac

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tpid *identityref*

Description Optionally set the tag protocol identifier field (TPID) that is accepted on the VLAN

If not set, TPID 0x8100 is the default expected TPID on the interface for tagged frames. The behavior when processing untagged frames is unaffected by this command.

Context interface name *string* tpid *identityref*

Tree tpid

Options

- TPID_0X8100

  Default TPID value for 802.1q single-tagged VLANs

- TPID_0X88A8

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TPID value for 802.1ad provider bridging, QinQ or stacked VLANs

- TPID_0X9100

  Alternate TPID value

- TPID_0X9200

  Alternate TPID value

- TPID_ANY

  A wildcard that matches any of the generally used TPID values for singly- or multiply-tagged VLANs Equivalent to matching any of TPID_0X8100, TPID_0X88A8, TPID_0X9100 and TPID_0x9200. This value is only applicable where the TPID of a packet is being matched.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-rate

Description Enter the traffic-rate context

Container for traffic rate statistics

Context interface name *string* traffic-rate

Tree traffic-rate

Configurable False

Platforms Supported on all platforms

in-bps *number*

Description The ingress bandwidth utilization of the port

Context interface name *string* traffic-rate in-bps *number*

Tree in-bps

Configurable False

Platforms Supported on all platforms

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out-bps *number*

Description	The egress bandwidth utilization of the port
Context	interface name *string* traffic-rate out-bps *number*
Tree	out-bps
Configurable	False
Platforms	Supported on all platforms

transceiver

Description	Enter the transceiver context
Context	interface name *string* transceiver
Tree	transceiver
Configurable	True
Platforms	Supported on all platforms

application-descriptors application-number *number*

Description	Application descriptors read from the installed transceiver This list is populated if the installed transceiver supports CMIS 4.0 or later Application Descriptors
Context	interface name *string* transceiver application-descriptors application-number *number*
Tree	application-descriptors
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-number *number*

Description	AppSel code of the application
Context	interface name *string* transceiver application-descriptors application-number *number*
Configurable	False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-if-id *number*

Description Host interface ID

Reference SFF-8024.

Context interface name *string* transceiver application-descriptors application-number *number* host-if-id *number*

Tree host-if-id

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-if-name *string*

Description Host interface description

Reference SFF-8024.

Context interface name *string* transceiver application-descriptors application-number *number* host-if-name *string*

Tree host-if-name

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-lane-assignment-options *keyword*

Description Starting lanes for host interfaces

Context interface name *string* transceiver application-descriptors application-number *number* host-lane-assignment-options *keyword*

Tree host-lane-assignment-options

Options

- lane-1
- lane-2
- lane-3
- lane-4

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- lane-5
- lane-6
- lane-7
- lane-8

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-lane-count *number*

Description Host lane count

The value zero means the host lane count is defined by interface ID.

Context interface name *string* transceiver application-descriptors application-number *number* host-lane-count *number*

Tree host-lane-count

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-if-id *number*

Description Media interface ID

Reference SFF-8024.

Context interface name *string* transceiver application-descriptors application-number *number* media-if-id *number*

Tree media-if-id

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-if-name *string*

Description Media interface description

Reference SFF-8024.

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Context interface name *string* transceiver application-descriptors application-number *number* media-if-name *string*

Tree media-if-name

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-lane-assignment-options *keyword*

Description Starting lanes for media interfaces

Context interface name *string* transceiver application-descriptors application-number *number* media-lane-assignment-options *keyword*

Tree media-lane-assignment-options

Options

- lane-1
- lane-2
- lane-3
- lane-4
- lane-5
- lane-6
- lane-7
- lane-8

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-lane-count *number*

Description Media lane count

The value zero means the media lane count is defined by interface ID.

Context interface name *string* transceiver application-descriptors application-number *number* media-lane-count *number*

Tree media-lane-count

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cdb-capabilities

Description	Enter the cdb-capabilities context CDB capabilities of the transceiver This is only reported for transceivers compliant to OIF CMIS 4.0 or newer
Context	interface name *string* transceiver cdb-capabilities
Tree	cdb-capabilities
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

hitless-restart *boolean*

Description	Indicates support for hitless restart
Context	interface name *string* transceiver cdb-capabilities hitless-restart *boolean*
Tree	hitless-restart
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

channel index *number*

Description	List of physical channels supported by the transceiver associated with this port. Availability of these leaves is dependent on the transceiver-functional-type; not all leaves are available for all types
Context	interface name *string* transceiver channel index *number*
Tree	channel
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	Index of the physical channel or lane
Context	interface name *string* transceiver channel index *number*

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Range	1 to 10
Configurable	False
Platforms	Supported on all platforms

wavelength *decimal-number*

Description	Wavelength of the transmitting laser in nanometers
Context	interface name *string* transceiver channel index *number* wavelength *decimal-number*
Tree	wavelength
Configurable	False
Platforms	Supported on all platforms

clei-code *string*

Description	The Common Language Identification Code of the transceiver This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver clei-code *string*
Tree	clei-code
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

cmis-revision *string*

Description	The revision of the CMIS specification supported by the transceiver This is only populated if the transceiver uses the CMIS specification. This is reported as a string concatenating major revision + '.' + minor revision. For example '5.3'
Context	interface name *string* transceiver cmis-revision *string*
Tree	cmis-revision
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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connector-type *keyword*

Description Specifies the fiber connector type of the transceiver associated with the port

Context interface name *string* transceiver connector-type *keyword*

Tree connector-type

Options

- SC
- FC-STYLE1-COPPER
- FC-STYLE2-COPPER
- BNC-OR-TNC
- FC-COAX
- FIBER-JACK
- LC
- MT-RJ
- MU
- SG
- OPTICAL-PIGTAIL
- MPO-1x12
- MPO-2x16
- HSSDC
- COPPER-PIGTAIL
- RJ45
- no-separable-connector
- MXC-2x16
- CS-OPTICAL-CONNECTOR
- SN-OPTICAL-CONNECTOR
- MPO-2x12
- MPO-1x16
- unknown

Configurable False

Platforms Supported on all platforms

date-code *string*

Description Transceiver date code.

Context interface name *string* transceiver date-code *string*

Tree date-code

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

ddm-events *boolean*

Description	Controls the reporting of DDM events When set to true, log events related to the Digital Diagnostic Monitoring (DDM) capabilities of the transceiver are generated. When set to false, no DDM-related log events are generated for this port/transceiver. When read from state this leaf always returns false (even if the configured value is true) when the Ethernet port is a copper/RJ45 port.
Context	interface name *string* transceiver ddm-events *boolean*
Tree	ddm-events
Configurable	True
Platforms	Supported on all platforms

ethernet-pmd *string*

Description	Specifies the Ethernet compliance code of the transceiver associated with the port
Context	interface name *string* transceiver ethernet-pmd *string*
Tree	ethernet-pmd
Configurable	False
Platforms	Supported on all platforms

fault-condition *boolean*

Description	Indicates if a fault condition exists in the transceiver
Context	interface name *string* transceiver fault-condition *boolean*
Tree	fault-condition
Configurable	False
Platforms	Supported on all platforms

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firmware

Description Enter the firmware context

Context interface name *string* transceiver firmware

Tree firmware

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

install-state

Description Enter the install-state context

Install state data for a transceiver

Leaves in this container report the status of the current active image install or the last completed install for this transceiver. Note that this information is not retained across system reboots.

Context interface name *string* transceiver firmware install-state

Tree install-state

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

install-status *keyword*

Description Status of the last installation procedure

Context interface name *string* transceiver firmware install-state install-status *keyword*

Tree install-status

Options

- idle

  No install has been initiated since last boot
- transfer-in-progress

  Transferring firmware
- transfer-done

  Firmware transferred
- transfer-failed

  Firmware transfer failed

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- abort-transfer-in-progress

  Aborting firmware transfer
- abort-transfer-done

  Firmware transfer aborted
- abort-transfer-failed

  Firmware abort-transfer failed
- activate-in-progress

  Activating firmware
- activate-done

  Firmware activated
- activate-failed

  Firmware activate failed
- commit-in-progress

  Committing firmware
- commit-done

  Firmware committed
- commit-failed

  Firmware commit failed
- transfer-pending

  Firmware transfer is queued, waiting for an in-progress firmware update on another interface to complete
- abort-transfer-pending

  Firmware abort-transfer is queued, waiting for an in-progress firmware update on another interface to complete
- activate-pending

  Firmware activate is queued, waiting for an in-progress firmware update on another interface to complete
- commit-pending

  Firmware commit is queued, waiting for an in-progress firmware update on another interface to complete

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

last-known-failure *string*

Description The reason of the last known failure, if the most recent install ended in failure

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Context	interface name *string* transceiver firmware install-state last-known-failure *string*
Tree	last-known-failure
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

transfer-end-time *string*

Description	The timestamp when the transfer ended
Context	interface name *string* transceiver firmware install-state transfer-end-time *string*
Tree	transfer-end-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

transfer-percent-complete *number*

Description	The percent complete for the transfer process
Context	interface name *string* transceiver firmware install-state transfer-percent-complete *number*
Tree	transfer-percent-complete
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

transfer-start-time *string*

Description	The timestamp when the transfer started
Context	interface name *string* transceiver firmware install-state transfer-start-time *string*
Tree	transfer-start-time
String Length	20 to 32

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

firmware-version *string*

Description	Active firmware version This is the information as read from the EEPROM of the part. The string returned is a concatenation of the following fields read from the transceiver: majorVersion.minorVersion.buildNumber Note that not all transceivers have all these element; if no value is available from the transceiver, that portion is left out of the string. This is only available for digital coherent optic transceivers.
Context	interface name *string* transceiver firmware-version *string*
Tree	firmware-version
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

form-factor *keyword*

Description	Specifies the transceiver form factor associated with the port
Context	interface name *string* transceiver form-factor *keyword*
Tree	form-factor
Options	• CFP2 • CFP2-ACO • CFP4 • QSFP • QSFPplus • QSFP28 • QSFPDD • SFP • SFPplus • Non-pluggable • Other • SFP28 • SFPDD

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- QSFP56
- SFP56
- CSFP
- OSFP
- QSFP-CMIS
- SFP-CMIS

Configurable False

Platforms Supported on all platforms

functional-type *identityref*

Description Indicates the module functional type which will be deployed for this interface

This refines the set of leaves available within the transceiver configuration.

Context interface name *string* transceiver functional-type *identityref*

Tree functional-type

Options

- standard

  indicates transceiver supports standard optics
- digital-coherent-optics

  Indicates transceiver supports digital coherent optics
- optical-line-system

  Indicates transceiver is a QSFP-DD-LS Amplifier

  These are used to multiplex and amplify coherent optical signals and do not themselves support Ethernet interfaces.

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

healthz

Description Enter the healthz context

The health of the component

The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.

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Context	interface name *string* transceiver healthz
Tree	healthz
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description	Last unhealthy time The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.
Context	interface name *string* transceiver healthz last-unhealthy *string*
Tree	last-unhealthy
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description	Health status The status of the component, indicating its current health.
Context	interface name *string* transceiver healthz status *keyword*
Tree	status
Options	• unspecified Unspecified status The component's health status has not yet been checked by the system.

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- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context interface name *string* transceiver healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inactive-firmware-version *string*

Description Inactive firmware version

This is the information as read from the EEPROM of the part. The string returned is a concatenation of the following fields read from the transceiver: majorVersion.minorVersion.buildNumber Note that not all transceivers

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have all these element; if no value is available from the transceiver, that portion is left out of the string. This is only available for digital coherent optic transceivers.

Context interface name *string* transceiver inactive-firmware-version *string*

Tree inactive-firmware-version

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

link-length-information *string*

Description Indicates the link length information stored in transceiver EEPROMs

This leaf is applicable only when the transceiver is equipped. The information is presented as a string interpretation of the 6 octets from the EEPROM.

Context interface name *string* transceiver link-length-information *string*

Tree link-length-information

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopback-capabilities

Description Enter the loopback-capabilities context

Loopback capabilities reported by the installed transceiver

These capabilities are only reported if the transceiver functional type is DCO. Transceiver loopbacks are applied through the terminal-device/logical-channel model

Context interface name *string* transceiver loopback-capabilities

Tree loopback-capabilities

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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host-side-input *boolean*

Description	Transceiver supports the host side input loopback
Context	interface name *string* transceiver loopback-capabilities host-side-input *boolean*
Tree	host-side-input
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-side-output *boolean*

Description	Transceiver supports the host side output loopback
Context	interface name *string* transceiver loopback-capabilities host-side-output *boolean*
Tree	host-side-output
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-side-per-lane *boolean*

Description	Transceiver supports the host side per-lane loopbacks If this reports false then for a transceiver using breakout-mode for its host side, the application of a loopback to one of the ethernet logical channels shall apply that loopback to all the other ethernet logical channels of this transceiver.
Context	interface name *string* transceiver loopback-capabilities host-side-per-lane *boolean*
Tree	host-side-per-lane
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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media-side-input *boolean*

Description	Transceiver supports the media side input loopback
Context	interface name *string* transceiver loopback-capabilities media-side-input *boolean*
Tree	media-side-input
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-side-output *boolean*

Description	Transceiver supports the media side output loopback
Context	interface name *string* transceiver loopback-capabilities media-side-output *boolean*
Tree	media-side-output
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

media-side-per-lane *boolean*

Description	Transceiver supports the media side per-lane loopbacks
Context	interface name *string* transceiver loopback-capabilities media-side-per-lane *boolean*
Tree	media-side-per-lane
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

simultaneous-host-and-media *boolean*

Description	Transceiver supports simultaneous host and media side loopbacks
Context	interface name *string* transceiver loopback-capabilities simultaneous-host-and-media *boolean*
Tree	simultaneous-host-and-media

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason for the transceiver being operationally down
Context	interface name *string* transceiver oper-down-reason *keyword*
Tree	oper-down-reason
Options	• not-present • read-failure • checksum-failure • unknown-transceiver • tx-laser-disabled • unsupported-breakout • port-disabled • connector-transceiver-down • unsupported-operational-mode • no-tunable-config • ols-link-not-established • functional-type-mismatch • unsupported-loopback • simulated-removal
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	The operational state of the transceiver The oper-state is always down when the Ethernet port is a copper/RJ45 port.
Context	interface name *string* transceiver oper-state *keyword*
Tree	oper-state
Options	• up • down
Configurable	False

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Platforms	Supported on all platforms

optical-channel index *number*

Description	List of optical channels supported by the transceiver associated with this port.
Context	interface name *string* transceiver optical-channel index *number*
Tree	optical-channel
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index of the optical channel
Context	interface name *string* transceiver optical-channel index *number*
Range	1
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fine-tuning

Description	Enter the fine-tuning context State related to fine-tuning
Context	interface name *string* transceiver optical-channel index *number* fine-tuning
Tree	fine-tuning
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range *number*

Description	The positive or negative offset that can be applied when using frequency fine tuning

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The offset is from a frequency of one of the grids supported by the equipped optical module.

Context interface name *string* transceiver optical-channel index *number* fine-tuning range *number*

Tree range

Units megahertz

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resolution *number*

Description The resolution that can be used for frequency fine tuning.

Context interface name *string* transceiver optical-channel index *number* fine-tuning resolution *number*

Tree resolution

Units megahertz

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frequency *number*

Description Center frequency for tunable DWDM optical interface

Context interface name *string* transceiver optical-channel index *number* frequency *number*

Tree frequency

Range 184500000 to 196150000

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

laser-tunability *keyword*

Description Tunability of the optical interface.

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Value 'unequipped' indicates the optical interface is not equipped with a laser.

Context interface name *string* transceiver optical-channel index *number* laser-tunability *keyword*

Tree laser-tunability

Options

- unequipped

  The optical interface is not equipped with a laser.
- not-tunable

  The optical interface is not tunable.
- fully-tunable

  The optical interface is tunable on the 100GHz and 50 GHz grids.
- tunable-100g

  The optical interface is tunable on the 100GHz grid.
- flex-tunable

  The optical interface is FlexGrid tunable.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

logical-channel *reference*

Description Logical channel associated to this optical channel

This is used to assist with the openconfig management of DCO using logical channels

Context interface name *string* transceiver optical-channel index *number* logical-channel *reference*

Tree logical-channel

Reference *number*

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-frequency *number*

Description The maximum frequency supported by the equipped optical module.

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Context	interface name *string* transceiver optical-channel index *number* maximum-frequency *number*
Tree	maximum-frequency
Range	184500000 to 196150000
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-frequency *number*

Description	The minimum frequency supported by the equipped optical module.
Context	interface name *string* transceiver optical-channel index *number* minimum-frequency *number*
Tree	minimum-frequency
Range	184500000 to 196150000
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

module-state *keyword*

Description	Indicates the state of the coherent optical module.
Context	interface name *string* transceiver optical-channel index *number* module-state *keyword*
Tree	module-state
Options	• other Module indicates a state that is not valid • low-power All high-power consuming circuits are in their low-power condition • power-up Module powers up all the circuitry and completes all required initialization • ready Module is in a steady-state, ready for passing data • power-down Module powers down circuitry that can be switched to a low-power state • fault

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Module fault detected and the module is put into its low-power mode

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-frequency *number*

Description The operating frequency of the optical-channel.

Context interface name *string* transceiver optical-channel index *number* oper-frequency *number*

Tree oper-frequency

Range 0 | 184500000 to 196150000

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-mode *keyword*

Description Operational mode for the transceiver

This is a numeric value the defines a set of operating characteristics such as modulation, bit-rate, max power range, fec, etc. Refer to Nokia documentation for details by transceiver part number.

Context interface name *string* transceiver optical-channel index *number* operational-mode *keyword*

Tree operational-mode

Options

- 1

  AppSel code 1
- 2

  AppSel code 2
- 3

  AppSel code 3
- 4

  AppSel code 4
- 5

  AppSel code 5
- 6

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AppSel code 6

- 7
  AppSel code 7
- 8
  AppSel code 8
- 9
  AppSel code 9
- 10
  AppSel code 10
- 11
  AppSel code 11
- 12
  AppSel code 12
- 13
  AppSel code 13
- 14
  AppSel code 14
- 15
  AppSel code 15
- 1021
  4x100GAUI-2, 400G, 16QAM, CFEC, 59.84 Gbd, OIF-ZR
- 1022
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1025
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const
- 1026
  4x100GAUI-1, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1027
  4x100GAUI-1, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1028
  4x100GAUI-2, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1029
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1033
  3x100GAUI-2, 300G, 8QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1037

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3x100GAUI-2, 300G, 8QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const

- 1043

  2x100GAUI-2, 200G, QPSK, OFEC, 60.14 Gbd, Open-ZR+
- 1051

  2xCAUI4, 200G, QPSK, OFEC, 60.14 Gbd, Open-ZR+
- 1061

  1xCAUI4, 100G, QPSK, OFEC, 30.07 Gbd, Open-ZR+
- 1065

  1x100GAUI-2, 100G, QPSK, OFEC, 30.07 Gbd, Open-ZR+
- 1069

  1x100GAUI-2, 100G, DQPSK, SCFEC, 27.95 Gbd, Clause 154
- 1081

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const
- 1082

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, (Small PMD)
- 1083

  400GAUI-8, 400G, 16QAM, CFEC, 59.84 Gbd, OIF-ZR
- 1085

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1088

  400GAUI-8, 400G, 16QAM, CFEC, 60.14 Gbd, OIF-ZR, Unamp
- 1089

  400GAUI-4, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1090

  400GAUI-4, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1091

  400GAUI-8, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1092

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1161

  1xCAUI4-NO-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, 100GBASE-ZR
- 1162

  1xCAUI4-RS-528-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, 100GBASE-ZR
- 1163

  1xCAUI4-NO-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4 Long Reach

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- 1164

  1xCAUI4-RS-528-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4 Long Reach
- 1169

  1xCAUI4, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4
- 1210

  800GAUI-8, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1211

  800GAUI-8, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR
- 1220

  8x100GAUI-1, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1221

  8x100GAUI-1, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR
- 1240

  2x400GAUI4, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1241

  2x400GAUI4, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR
- 2001

  800GAUI-8, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2002

  8x100GAUI-1, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2003

  400GAUI-4, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2004

  400GAUI-4, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2005

  4x100GAUI-1, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2006

  4x100GAUI-1, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2007

  2x400GAUI-4, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2008

  400GAUI-8, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2009

  400GAUI-8, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2010

  4x100GAUI-2, 400G, MPCS, OFEC, 131.34 Gbd, FlexO

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- 2011

  4x100GAUI-2, 400G, MPCS, OFEC, 65.7 Gbd, FlexO

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-electrical-snr-x-polarization *decimal-number*

Description Indicates the network received electrical SNR (Signal-to-Noise Ratio) of X polarization.

Context interface name *string* transceiver optical-channel index *number* rx-electrical-snr-x-polarization *decimal-number*

Tree rx-electrical-snr-x-polarization

Units decibels

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-electrical-snr-y-polarization *decimal-number*

Description Indicates the network received electrical SNR (Signal-to-Noise Ratio) of Y polarization.

Context interface name *string* transceiver optical-channel index *number* rx-electrical-snr-y-polarization *decimal-number*

Tree rx-electrical-snr-y-polarization

Units decibels

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-los-reaction *keyword*

Description Reaction to an RX LOS

Context interface name *string* transceiver optical-channel index *number* rx-los-reaction *keyword*

Tree rx-los-reaction

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Default	squelch
Options	• none Specifies that the port not be taken down on crossing the optical LOS threshold • squelch Specifies that the port be taken down on crossing the optical LOS threshold
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-los-thresh *decimal-number*

Description	Average input power LOS threshold
Context	interface name *string* transceiver optical-channel index *number* rx-los-thresh *decimal-number*
Tree	rx-los-thresh
Range	-30 to -13
Default	-23
Units	decibel-milliwatts
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-optical-snr-x-polarization *decimal-number*

Description	Indicates the network received estimated optical SNR (Signal-to-Noise Ratio) of X polarization.
Context	interface name *string* transceiver optical-channel index *number* rx-optical-snr-x-polarization *decimal-number*
Tree	rx-optical-snr-x-polarization
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rx-optical-snr-y-polarization *decimal-number*

Description	Indicates the network received estimated optical SNR (Signal-to-Noise Ratio) of Y polarization.
Context	interface name *string* transceiver optical-channel index *number* rx-optical-snr-y-polarization *decimal-number*
Tree	rx-optical-snr-y-polarization
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-quality-margin *decimal-number*

Description	Indicates the received quality margin.
Context	interface name *string* transceiver optical-channel index *number* rx-quality-margin *decimal-number*
Tree	rx-quality-margin
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context interface/statistics/last-clear indicates when these statistics were last cleared.
Context	interface name *string* transceiver optical-channel index *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received

Description	Enter the received context
Context	interface name *string* transceiver optical-channel index *number* statistics received
Tree	received
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bit-error-rate

Description	Enter the bit-error-rate context
Context	interface name *string* transceiver optical-channel index *number* statistics received bit-error-rate
Tree	bit-error-rate
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average BER received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received bit-error-rate average *decimal-number*
Tree	average
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current BER received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received bit-error-rate current *decimal-number*
Tree	current

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum BER received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received bit-error-rate maximum *decimal-number*
Tree	maximum
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum BER received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received bit-error-rate minimum *decimal-number*
Tree	minimum
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chromatic-dispersion

Description	Enter the chromatic-dispersion context
Context	interface name *string* transceiver optical-channel index *number* statistics received chromatic-dispersion
Tree	chromatic-dispersion
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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average *number*

Description	Average chromatic dispersion received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received chromatic-dispersion average *number*
Tree	average
Units	picoseconds per nanometer
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *number*

Description	Current chromatic dispersion received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received chromatic-dispersion current *number*
Tree	current
Units	picoseconds per nanometer
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum chromatic dispersion received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received chromatic-dispersion maximum *number*
Tree	maximum
Units	picoseconds per nanometer
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minimum *number*

Description	Minimum chromatic dispersion received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received chromatic-dispersion minimum *number*
Tree	minimum
Units	picoseconds per nanometer
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

differential-group-delay

Description	Enter the differential-group-delay context
Context	interface name *string* transceiver optical-channel index *number* statistics received differential-group-delay
Tree	differential-group-delay
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average differential group delay received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received differential-group-delay average *decimal-number*
Tree	average
Units	picoseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current differential group delay received on the optical channel

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Context	interface name *string* transceiver optical-channel index *number* statistics received differential-group-delay current *decimal-number*
Tree	current
Units	picoseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum differential group delay received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received differential-group-delay maximum *decimal-number*
Tree	maximum
Units	picoseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum differential group delay received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received differential-group-delay minimum *decimal-number*
Tree	minimum
Units	picoseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

electrical-signal-to-noise-ratio

Description	Enter the electrical-signal-to-noise-ratio context
Context	interface name *string* transceiver optical-channel index *number* statistics received electrical-signal-to-noise-ratio
Tree	electrical-signal-to-noise-ratio

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received electrical-signal-to-noise-ratio average *decimal-number*
Tree	average
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received electrical-signal-to-noise-ratio current *decimal-number*
Tree	current
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received electrical-signal-to-noise-ratio maximum *decimal-number*
Tree	maximum
Units	decibels
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received electrical-signal-to-noise-ratio minimum *decimal-number*
Tree	minimum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frequency-offset

Description	Enter the frequency-offset context
Context	interface name *string* transceiver optical-channel index *number* statistics received frequency-offset
Tree	frequency-offset
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average frequency offset received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received frequency-offset average *number*
Tree	average
Units	megahertz
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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current *number*

Description	Current frequency offset received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received frequency-offset current *number*
Tree	current
Units	megahertz
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum frequency offset received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received frequency-offset maximum *number*
Tree	maximum
Units	megahertz
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum frequency offset received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received frequency-offset minimum *number*
Tree	minimum
Units	megahertz
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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media-frame-error-count

Description Enter the media-frame-error-count context

Context interface name *string* transceiver optical-channel index *number* statistics received media-frame-error-count

Tree media-frame-error-count

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Indicates the average Media Frame Rate Error Count received on the optical channel

Context interface name *string* transceiver optical-channel index *number* statistics received media-frame-error-count average *number*

Tree average

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *number*

Description Indicates the current Media Frame Rate Error Count received on the optical channel

Context interface name *string* transceiver optical-channel index *number* statistics received media-frame-error-count current *number*

Tree current

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description Indicates the maximum Media Frame Rate Error Count received on the optical channel

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Context	interface name *string* transceiver optical-channel index *number* statistics received media-frame-error-count maximum *number*
Tree	maximum
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Indicates the minimum Media Frame Rate Error Count received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received media-frame-error-count minimum *number*
Tree	minimum
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

optical-signal-to-noise-ratio

Description	Enter the optical-signal-to-noise-ratio context
Context	interface name *string* transceiver optical-channel index *number* statistics received optical-signal-to-noise-ratio
Tree	optical-signal-to-noise-ratio
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received optical-signal-to-noise-ratio average *decimal-number*
Tree	average
Units	decibels
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received optical-signal-to-noise-ratio current *decimal-number*
Tree	current
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received optical-signal-to-noise-ratio maximum *decimal-number*
Tree	maximum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum SNR received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received optical-signal-to-noise-ratio minimum *decimal-number*
Tree	minimum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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polarization-dependent-loss

Description	Enter the polarization-dependent-loss context
Context	interface name *string* transceiver optical-channel index *number* statistics received polarization-dependent-loss
Tree	polarization-dependent-loss
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Indicates the average Polarization Dependent Loss received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received polarization-dependent-loss average *decimal-number*
Tree	average
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Indicates the current Polarization Dependent Loss received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received polarization-dependent-loss current *decimal-number*
Tree	current
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum *decimal-number*

Description	Indicates the maximum Polarization Dependent Loss received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received polarization-dependent-loss maximum *decimal-number*
Tree	maximum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Indicates the minimum Polarization Dependent Loss received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received polarization-dependent-loss minimum *decimal-number*
Tree	minimum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

power

Description	Enter the power context
Context	interface name *string* transceiver optical-channel index *number* statistics received power
Tree	power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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average *decimal-number*

Description	Average power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received power average *decimal-number*
Tree	average
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received power current *decimal-number*
Tree	current
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received power maximum *decimal-number*
Tree	maximum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minimum *decimal-number*

Description	Minimum power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received power minimum *decimal-number*
Tree	minimum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

quality

Description	Enter the quality context
Context	interface name *string* transceiver optical-channel index *number* statistics received quality
Tree	quality
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average quality received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received quality average *decimal-number*
Tree	average
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current quality received on the optical channel

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Context	interface name *string* transceiver optical-channel index *number* statistics received quality current *decimal-number*
Tree	current
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum quality received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received quality maximum *decimal-number*
Tree	maximum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum quality received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received quality minimum *decimal-number*
Tree	minimum
Units	decibels
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-of-polarization-rate-of-change

Description	Enter the state-of-polarization-rate-of-change context
Context	interface name *string* transceiver optical-channel index *number* statistics received state-of-polarization-rate-of-change
Tree	state-of-polarization-rate-of-change

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Indicates the average SOP-ROC received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received state-of-polarization-rate-of-change average *decimal-number*
Tree	average
Units	kiloradians per second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Indicates the current SOP-ROC received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received state-of-polarization-rate-of-change current *decimal-number*
Tree	current
Units	kiloradians per second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Indicates the maximum SOP-ROC received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received state-of-polarization-rate-of-change maximum *decimal-number*
Tree	maximum
Units	kiloradians per second
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Indicates the minimum SOP-ROC received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received state-of-polarization-rate-of-change minimum *decimal-number*
Tree	minimum
Units	kiloradians per second
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-power

Description	Enter the total-power context
Context	interface name *string* transceiver optical-channel index *number* statistics received total-power
Tree	total-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Indicates the average total power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received total-power average *decimal-number*
Tree	average
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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current *decimal-number*

Description	Indicates the current total power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received total-power current *decimal-number*
Tree	current
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Indicates the maximum total power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received total-power maximum *decimal-number*
Tree	maximum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Indicates the minimum total power received on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics received total-power minimum *decimal-number*
Tree	minimum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transmitted

Description Enter the transmitted context

Context interface name *string* transceiver optical-channel index *number* statistics transmitted

Tree transmitted

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

laser-bias-current

Description Enter the laser-bias-current context

Context interface name *string* transceiver optical-channel index *number* statistics transmitted laser-bias-current

Tree laser-bias-current

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description The current value of the laser bias current in mA

Context interface name *string* transceiver optical-channel index *number* statistics transmitted laser-bias-current current *decimal-number*

Tree current

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

power

Description Enter the power context

Context interface name *string* transceiver optical-channel index *number* statistics transmitted power

Tree power

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *decimal-number*

Description	Average power transmitted on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics transmitted power average *decimal-number*
Tree	average
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current *decimal-number*

Description	Current power transmitted on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics transmitted power current *decimal-number*
Tree	current
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum power transmitted on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics transmitted power maximum *decimal-number*
Tree	maximum
Units	decibel-milliwatts
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum power transmitted on the optical channel
Context	interface name *string* transceiver optical-channel index *number* statistics transmitted power minimum *decimal-number*
Tree	minimum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

supported-grids *keyword*

Description	Indicates the frequency grids supported by the equipped tunable optical port.
Context	interface name *string* transceiver optical-channel index *number* supported-grids *keyword*
Tree	supported-grids
Options	• grid-100-ghz • grid-75-ghz • grid-50-ghz • grid-33-ghz • grid-25-ghz • grid-12500-mhz • grid-6250-mhz • grid-3125-mhz
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target-power *decimal-number*

Description	Average output power target for the port

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Context	interface name *string* transceiver optical-channel index *number* target-power *decimal-number*
Tree	target-power
Range	-22 to 4
Default	1
Units	decibel-milliwatts
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmit-power

Description	Enter the transmit-power context
Context	interface name *string* transceiver optical-channel index *number* transmit-power
Tree	transmit-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *decimal-number*

Description	Maximum configurable transmit power for the equipped optical module
Context	interface name *string* transceiver optical-channel index *number* transmit-power maximum *decimal-number*
Tree	maximum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *decimal-number*

Description	Minimum configurable transmit power for the equipped optical module
Context	interface name *string* transceiver optical-channel index *number* transmit-power minimum *decimal-number*

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Tree	minimum
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

optical-line-system

Description	Parameters for an QSFP-DD-LS amplifier (optical-line-system)
Context	interface name *string* transceiver optical-line-system
Tree	optical-line-system
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

digital-diagnostic-monitoring

Description	Enter the digital-diagnostic-monitoring context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring
Tree	digital-diagnostic-monitoring
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

egress-amplifier-gain

Description	Enter the egress-amplifier-gain context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain
Tree	egress-amplifier-gain
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the egress amplifier gain is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the egress amplifier gain is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description	The current value of the egress amplifier gain
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain latest-value *decimal-number*
Tree	latest-value
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the egress amplifier gain is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the egress amplifier gain is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-gain low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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egress-amplifier-input-power

Description	Enter the egress-amplifier-input-power context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power
Tree	egress-amplifier-input-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the egress amplifier input power is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the egress amplifier input power is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description	The current value of the egress amplifier input power
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power latest-value *decimal-number*
Tree	latest-value
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the egress amplifier input power is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the egress amplifier input power is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-input-power low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

egress-amplifier-output-power

Description	Enter the egress-amplifier-output-power context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power
Tree	egress-amplifier-output-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the egress amplifier output power is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the egress amplifier output power is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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latest-value *decimal-number*

Description	The current value of the egress amplifier output power
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power latest-value *decimal-number*
Tree	latest-value
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the egress amplifier output power is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the egress amplifier output power is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-amplifier-output-power low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

egress-pump-temperature

Description	Enter the egress-pump-temperature context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature
Tree	egress-pump-temperature
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the egress pump temperature is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the egress pump temperature is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description	The current value of the egress pump temperature
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature latest-value *decimal-number*
Tree	latest-value
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the egress pump temperature is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the egress pump temperature is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring egress-pump-temperature low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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ingress-amplifier-gain

Description	Enter the ingress-amplifier-gain context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain
Tree	ingress-amplifier-gain
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the ingress amplifier gain is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition.

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Set to true whenever the ingress amplifier gain is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold

Context interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain high-warning-condition *boolean*

Tree high-warning-condition

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-threshold *decimal-number*

Description High warning threshold.

Read from the installed transceiver

Context interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain high-warning-threshold *decimal-number*

Tree high-warning-threshold

Units decibel-milliwatts

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description The current value of the ingress amplifier gain

Context interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain latest-value *decimal-number*

Tree latest-value

Units decibel-milliwatts

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description Low alarm threshold condition.

Set to true whenever the ingress amplifier gain is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold

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Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the ingress amplifier gain is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-gain low-warning-threshold *decimal-number*

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Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

ingress-amplifier-input-power

Description	Enter the ingress-amplifier-input-power context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power
Tree	ingress-amplifier-input-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the ingress amplifier input power is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the ingress amplifier input power is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description	The current value of the ingress amplifier input power
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power latest-value *decimal-number*
Tree	latest-value
Units	decibel-milliwatts
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the ingress amplifier input power is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the ingress amplifier input power is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-input-power low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

ingress-amplifier-output-power

Description	Enter the ingress-amplifier-output-power context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power
Tree	ingress-amplifier-output-power
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the ingress amplifier output power is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the ingress amplifier output power is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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latest-value *decimal-number*

Description	The current value of the ingress amplifier output power
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power latest-value *decimal-number*
Tree	latest-value
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the ingress amplifier output power is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the ingress amplifier output power is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-amplifier-output-power low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	decibel-milliwatts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

ingress-pump-temperature

Description	Enter the ingress-pump-temperature context
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature
Tree	ingress-pump-temperature
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the ingress pump temperature is above the high-alarm-threshold and set to false whenever the value is below the high-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the ingress pump temperature is above the high-warning-threshold and set to false whenever the value is below the high-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

latest-value *decimal-number*

Description	The current value of the ingress pump temperature
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature latest-value *decimal-number*
Tree	latest-value
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the ingress pump temperature is below the low-alarm-threshold and set to false whenever the value is above the low-alarm-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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low-alarm-threshold *decimal-number*

Description	Low alarm threshold condition. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the ingress pump temperature is below the low-warning-threshold and set to false whenever the value is above the low-warning-threshold
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature low-warning-condition *boolean*
Tree	low-warning-condition
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver optical-line-system digital-diagnostic-monitoring ingress-pump-temperature low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Units	celsius
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

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egress-amplifier-gain *decimal-number*

Description	Gain for the egress amplifier
Context	interface name *string* transceiver optical-line-system egress-amplifier-gain *decimal-number*
Tree	egress-amplifier-gain
Range	0.00 to 25.00
Default	25.00
Units	decibels
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4

reset

Description	Execute the reset action Reset the transceiver
Context	interface name *string* transceiver reset
Tree	reset
Configurable	True
Note	This is an action command
Platforms	Supported on IXR Gen 2c+, IXR Gen 3, IXR mixed Gen 2c+/Gen 3

info *string*

Description	Info message returned by the reset operation
Context	interface name *string* transceiver reset info *string*
Tree	info
Configurable	True
Note	This is an action output
Platforms	Supported on IXR Gen 2c+, IXR Gen 3, IXR mixed Gen 2c+/Gen 3

serial-number *string*

Description	Transceiver serial number This is the information as read from the EEPROM of the part.

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Context interface name *string* transceiver serial-number *string*

Tree serial-number

Configurable False

Platforms Supported on all platforms

supported-operational-mode *keyword*

Description Operational modes supported by the installed transceiver

Lists the operational-modes supported by the installed transceiver. If no transceiver is installed, nothing is reported.

Context interface name *string* transceiver supported-operational-mode *keyword*

Tree supported-operational-mode

Options

- 1

  AppSel code 1
- 2

  AppSel code 2
- 3

  AppSel code 3
- 4

  AppSel code 4
- 5

  AppSel code 5
- 6

  AppSel code 6
- 7

  AppSel code 7
- 8

  AppSel code 8
- 9

  AppSel code 9
- 10

  AppSel code 10
- 11

  AppSel code 11
- 12

  AppSel code 12

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- 13
  AppSel code 13
- 14
  AppSel code 14
- 15
  AppSel code 15
- 1021
  4x100GAUI-2, 400G, 16QAM, CFEC, 59.84 Gbd, OIF-ZR
- 1022
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1025
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const
- 1026
  4x100GAUI-1, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1027
  4x100GAUI-1, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1028
  4x100GAUI-2, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1029
  4x100GAUI-2, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1033
  3x100GAUI-2, 300G, 8QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1037
  3x100GAUI-2, 300G, 8QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const
- 1043
  2x100GAUI-2, 200G, QPSK, OFEC, 60.14 Gbd, Open-ZR+
- 1051
  2xCAUI4, 200G, QPSK, OFEC, 60.14 Gbd, Open-ZR+
- 1061
  1xCAUI4, 100G, QPSK, OFEC, 30.07 Gbd, Open-ZR+
- 1065
  1x100GAUI-2, 100G, QPSK, OFEC, 30.07 Gbd, Open-ZR+
- 1069
  1x100GAUI-2, 100G, DQPSK, SCFEC, 27.95 Gbd, Clause 154
- 1081
  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, Enh Const

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- 1082

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+, (Small PMD)
- 1083

  400GAUI-8, 400G, 16QAM, CFEC, 59.84 Gbd, OIF-ZR
- 1085

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1088

  400GAUI-8, 400G, 16QAM, CFEC, 60.14 Gbd, OIF-ZR, Unamp
- 1089

  400GAUI-4, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1090

  400GAUI-4, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1091

  400GAUI-8, 400G, QPSK, OFEC, 118.20 Gbd, Open-ROADM
- 1092

  400GAUI-8, 400G, 16QAM, OFEC, 60.14 Gbd, Open-ZR+
- 1161

  1xCAUI4-NO-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, 100GBASE-ZR
- 1162

  1xCAUI4-RS-528-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, 100GBASE-ZR
- 1163

  1xCAUI4-NO-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4 Long Reach
- 1164

  1xCAUI4-RS-528-FEC, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4 Long Reach
- 1169

  1xCAUI4, 100G, DQPSK, SCFEC, 27.95 Gbd, OTU4
- 1210

  800GAUI-8, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1211

  800GAUI-8, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR
- 1220

  8x100GAUI-1, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1221

  8x100GAUI-1, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR

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- 1240
  2x400GAUI4, 800G, PCS-16QAM, OFEC, 131.34 Gbd, Open-ROADM
- 1241
  2x400GAUI4, 800G, DP-16QAM, OFEC, 118.20 Gbd, OIF-ZR
- 2001
  800GAUI-8, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2002
  8x100GAUI-1, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2003
  400GAUI-4, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2004
  400GAUI-4, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2005
  4x100GAUI-1, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2006
  4x100GAUI-1, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2007
  2x400GAUI-4, 800G, MPCS, OFEC, 131.34 Gbd, FlexO, Enh Const
- 2008
  400GAUI-8, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2009
  400GAUI-8, 400G, MPCS, OFEC, 65.7 Gbd, FlexO
- 2010
  4x100GAUI-2, 400G, MPCS, OFEC, 131.34 Gbd, FlexO
- 2011
  4x100GAUI-2, 400G, MPCS, OFEC, 65.7 Gbd, FlexO

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

temperature

Description Enter the temperature context

Context interface name *string* transceiver temperature

Tree temperature

Configurable False

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Platforms	Supported on all platforms

high-alarm-condition *boolean*

Description	High alarm threshold condition Set to true whenever the temperature is above the high-alarm-threshold and set to false whenever the temperature is below the high-alarm-threshold
Context	interface name *string* transceiver temperature high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	Supported on all platforms

high-alarm-threshold *number*

Description	High alarm threshold Read from the installed transceiver
Context	interface name *string* transceiver temperature high-alarm-threshold *number*
Tree	high-alarm-threshold
Configurable	False
Platforms	Supported on all platforms

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the temperature is above the high-warning-threshold and set to false whenever the temperature is below the high-warning-threshold
Context	interface name *string* transceiver temperature high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	Supported on all platforms

high-warning-threshold *number*

Description	High warning threshold. Read from the installed transceiver

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Context	interface name *string* transceiver temperature high-warning-threshold *number*
Tree	high-warning-threshold
Configurable	False
Platforms	Supported on all platforms

latest-value *number*

Description	The current temperature of the transceiver module in degrees Celsius
Context	interface name *string* transceiver temperature latest-value *number*
Tree	latest-value
Configurable	False
Platforms	Supported on all platforms

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the temperature is below the low-alarm-threshold and set to false whenever the temperature is above the low-alarm-threshold
Context	interface name *string* transceiver temperature low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	Supported on all platforms

low-alarm-threshold *number*

Description	Low alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver temperature low-alarm-threshold *number*
Tree	low-alarm-threshold
Configurable	False
Platforms	Supported on all platforms

low-warning-condition *boolean*

Description	Low warning threshold condition.

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Set to true whenever the temperature is below the low-warning-threshold and set to false whenever the temperature is above the low-warning-threshold

Context interface name *string* transceiver temperature low-warning-condition *boolean*

Tree low-warning-condition

Configurable False

Platforms Supported on all platforms

low-warning-threshold *number*

Description Low warning threshold.

Read from the installed transceiver

Context interface name *string* transceiver temperature low-warning-threshold *number*

Tree low-warning-threshold

Configurable False

Platforms Supported on all platforms

maximum *number*

Description Represents the highest temperature the transceiver has reached since it booted

Context interface name *string* transceiver temperature maximum *number*

Tree maximum

Configurable False

Platforms Supported on all platforms

maximum-time *string*

Description Indicates the time this transceiver reached the temperature referenced in maximum

Context interface name *string* transceiver temperature maximum-time *string*

Tree maximum-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

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tx-laser *boolean*

Description	Enable (true) or disable (false) the transmit laser of the transceiver When read from state this leaf always returns false (even if the configured value is true) when the Ethernet port is a copper/RJ45 port. Default is true (for interfaces that support transceivers).
Context	interface name *string* transceiver tx-laser *boolean*
Tree	tx-laser
Configurable	True
Platforms	Supported on all platforms

vendor *string*

Description	Name of the transceiver vendor This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver vendor *string*
Tree	vendor
Configurable	False
Platforms	Supported on all platforms

vendor-lot-number *string*

Description	Vendor's lot number for the transceiver This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver vendor-lot-number *string*
Tree	vendor-lot-number
Configurable	False
Platforms	Supported on all platforms

vendor-oui *string*

Description	Vendor's OUI This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver vendor-oui *string*
Tree	vendor-oui

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

vendor-part-number *string*

Description	Vendor's part number for the transceiver This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver vendor-part-number *string*
Tree	vendor-part-number
Configurable	False
Platforms	Supported on all platforms

vendor-revision *string*

Description	Vendor's revision number for the transceiver This is the information as read from the EEPROM of the part.
Context	interface name *string* transceiver vendor-revision *string*
Tree	vendor-revision
Configurable	False
Platforms	Supported on all platforms

voltage

Description	Enter the voltage context
Context	interface name *string* transceiver voltage
Tree	voltage
Configurable	False
Platforms	Supported on all platforms

high-alarm-condition *boolean*

Description	High alarm threshold condition. Set to true whenever the module voltage is above the high-alarm-threshold and set to false whenever the module voltage is below the high-alarm-threshold

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Context	interface name *string* transceiver voltage high-alarm-condition *boolean*
Tree	high-alarm-condition
Configurable	False
Platforms	Supported on all platforms

high-alarm-threshold *decimal-number*

Description	High alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver voltage high-alarm-threshold *decimal-number*
Tree	high-alarm-threshold
Configurable	False
Platforms	Supported on all platforms

high-warning-condition *boolean*

Description	High warning threshold condition. Set to true whenever the module voltage is above the high-warning-threshold and set to false whenever the module voltage is below the high-warning-threshold
Context	interface name *string* transceiver voltage high-warning-condition *boolean*
Tree	high-warning-condition
Configurable	False
Platforms	Supported on all platforms

high-warning-threshold *decimal-number*

Description	High warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver voltage high-warning-threshold *decimal-number*
Tree	high-warning-threshold
Configurable	False
Platforms	Supported on all platforms

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latest-value *decimal-number*

Description	The current voltage reading of the transceiver module (in Volts)
Context	interface name *string* transceiver voltage latest-value *decimal-number*
Tree	latest-value
Configurable	False
Platforms	Supported on all platforms

low-alarm-condition *boolean*

Description	Low alarm threshold condition. Set to true whenever the module voltage is below the low-alarm-threshold and set to false whenever the module voltage is above the low-alarm-threshold
Context	interface name *string* transceiver voltage low-alarm-condition *boolean*
Tree	low-alarm-condition
Configurable	False
Platforms	Supported on all platforms

low-alarm-threshold *decimal-number*

Description	Low alarm threshold. Read from the installed transceiver
Context	interface name *string* transceiver voltage low-alarm-threshold *decimal-number*
Tree	low-alarm-threshold
Configurable	False
Platforms	Supported on all platforms

low-warning-condition *boolean*

Description	Low warning threshold condition. Set to true whenever the module voltage is below the low-warning-threshold and set to false whenever the module voltage is above the low-warning-threshold
Context	interface name *string* transceiver voltage low-warning-condition *boolean*
Tree	low-warning-condition

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Configurable	False
Platforms	Supported on all platforms

low-warning-threshold *decimal-number*

Description	Low warning threshold. Read from the installed transceiver
Context	interface name *string* transceiver voltage low-warning-threshold *decimal-number*
Tree	low-warning-threshold
Configurable	False
Platforms	Supported on all platforms

wavelength *decimal-number*

Description	Wavelength of the transmitting laser in nanometers
Context	interface name *string* transceiver wavelength *decimal-number*
Tree	wavelength
Configurable	False
Platforms	Supported on all platforms

uuid *string*

Description	The system-generated or user-configured UUID for the interface
Context	interface name *string* uuid *string*
Tree	uuid
Configurable	True
Platforms	vsrl and future-0-0

vlan-tagging *boolean*

Description	When set to true the interface is allowed to accept frames with one or more VLAN tags
Context	interface name *string* vlan-tagging *boolean*
Tree	vlan-tagging
Configurable	True

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Platforms	Supported on all platforms

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6 network-instance

```
network-instance name string
+  admin-state keyword
-  afts
   -  ipv4-unicast
      -  ipv4-entry prefix string
         -  counters
            -  octets-forwarded number
            -  packets-forwarded number
            -  resource-allocation-failed boolean
            -  resource-allocation-failed-locations string
         -  entry-metadata binary
         -  next-hop-group reference
         -  next-hop-group-network-instance reference
         -  origin-network-instance reference
         -  origin-protocol identityref
   -  ipv6-unicast
      -  ipv6-entry prefix string
         -  entry-metadata binary
         -  next-hop-group reference
         -  next-hop-group-network-instance reference
         -  origin-network-instance reference
         -  origin-protocol identityref
   -  next-hop index number
      -  counters
         -  octets-forwarded number
         -  packets-forwarded number
         -  resource-allocation-failed boolean
         -  resource-allocation-failed-locations string
      -  encap-header index number
         -  gre
            -  destination-ip (ipv4-address | ipv6-address)
            -  in-profile-dscp number
            -  ip-ttl number
            -  out-profile-dscp number
            -  source-ip (ipv4-address | ipv6-address)
         -  ipv4
            -  destination-ip string
            -  source-ip string
         -  ipv6
            -  destination-ip string
            -  source-ip string
         -  mpls
            -  mpls-label-stack (number | keyword)
            -  traffic-class number
         -  type keyword
         -  udp-v4
            -  destination-ip string
            -  destination-udp-port number
            -  in-profile-dscp number
            -  ip-ttl number
            -  out-profile-dscp number
            -  source-ip string
         -  udp-v6
            -  destination-ip string
            -  destination-udp-port number
            -  in-profile-dscp number
```


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```
            -  ip-ttl number
            -  out-profile-dscp number
            -  source-ip string
         -  vxlan
            -  vni-label number
      -  interface-ref
         -  interface reference
         -  subinterface reference
      -  ip-address (ipv4-address | ipv6-address)
      -  mac-address string
      -  network-instance reference
      -  programmed-index number
   -  next-hop-group id number
      -  backup-active boolean
      -  backup-next-hop-group reference
      -  next-hop index reference
         -  weight number
      -  programmed-id number
+  aggregate-routes
   +  instance-name string
   +  route prefix (ipv4-prefix | ipv6-prefix)
      +  admin-state keyword
      +  aggregator
         +  address string
         +  as-number number
      +  communities
         +  add (bgp-std-community-type | identityref | bgp-large-community-type)
      +  generate-icmp boolean
      -  installed boolean
      +  summary-only boolean
+  bfd
   +  seamless-bfd
      +  peer address (ipv4-address | ipv6-address)
         +  discriminator number
      +  reflector name string
         +  admin-state keyword
         +  description string
         +  local-discriminator number
-  bgp-rib
   -  afi-safi afi-safi-name identityref
      -  evpn
         -  local-rib
            -  ethernet-ad-route route-distinguisher (route-distinguisher-type-0 |
 route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string ethernet-tag-id number neighbor (ipv4-address-with-zone | ipv6-address-with-
zone) path-id number
               -  attr-id reference
               -  backup-route boolean
               -  best-route boolean
               -  fib-disabled boolean
               -  group-best boolean
               -  imported-network-instances reference
               -  internal-tags string
               -  invalid-reason
                  -  as-loop boolean
                  -  cluster-loop boolean
                  -  domain-path-loop boolean
                  -  fib-programming-failed boolean
                  -  flowspec-rule-programming-failed boolean
                  -  flowspec-unsupported-action boolean
                  -  flowspec-unsupported-match boolean
                  -  flowspec-validation-failed boolean
                  -  label-allocation-failed boolean
                  -  next-hop-unresolved boolean
```


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```
                  -  rejected-route boolean
               -  label
                  -  value number
                  -  value-type keyword
               -  last-modified string
               -  neighbor-as number
               -  pending-delete boolean
               -  route-flap-damping
                  -  decayed boolean
                  -  figure-of-merit number
                  -  flap-count number
                  -  history boolean
                  -  reuse-time number
                  -  suppressed boolean
               -  stale-route boolean
               -  tie-break-reason keyword
               -  unused-weight-only boolean
               -  used-route boolean
               -  valid-route boolean
            -  ethernet-segment-route route-distinguisher (route-distinguisher-type-0
 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-
zone | ipv6-address-with-zone) path-id number
               -  attr-id reference
               -  backup-route boolean
               -  best-route boolean
               -  fib-disabled boolean
               -  group-best boolean
               -  internal-tags string
               -  invalid-reason
                  -  as-loop boolean
                  -  cluster-loop boolean
                  -  domain-path-loop boolean
                  -  fib-programming-failed boolean
                  -  flowspec-rule-programming-failed boolean
                  -  flowspec-unsupported-action boolean
                  -  flowspec-unsupported-match boolean
                  -  flowspec-validation-failed boolean
                  -  label-allocation-failed boolean
                  -  next-hop-unresolved boolean
                  -  rejected-route boolean
               -  last-modified string
               -  neighbor-as number
               -  pending-delete boolean
               -  route-flap-damping
                  -  decayed boolean
                  -  figure-of-merit number
                  -  flap-count number
                  -  history boolean
                  -  reuse-time number
                  -  suppressed boolean
               -  stale-route boolean
               -  tie-break-reason keyword
               -  unused-weight-only boolean
               -  used-route boolean
               -  valid-route boolean
            -  imet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
               -  attr-id reference
               -  backup-route boolean
               -  best-route boolean
               -  fib-disabled boolean
```


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```
                - group-best boolean
                - imported-network-instances reference
                - internal-tags string
                - invalid-reason
                   - as-loop boolean
                   - cluster-loop boolean
                   - domain-path-loop boolean
                   - fib-programming-failed boolean
                   - flowspec-rule-programming-failed boolean
                   - flowspec-unsupported-action boolean
                   - flowspec-unsupported-match boolean
                   - flowspec-validation-failed boolean
                   - label-allocation-failed boolean
                   - next-hop-unresolved boolean
                   - rejected-route boolean
                - last-modified string
                - neighbor-as number
                - pending-delete boolean
                - route-flap-damping
                   - decayed boolean
                   - figure-of-merit number
                   - flap-count number
                   - history boolean
                   - reuse-time number
                   - suppressed boolean
                - stale-route boolean
                - tie-break-reason keyword
                - unused-weight-only boolean
                - used-route boolean
                - valid-route boolean
             - ip-prefix-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number ip-prefix-length number ip-prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                - attr-id reference
                - backup-route boolean
                - best-route boolean
                - dpath-looped-network-instances reference
                - esi string
                - fib-disabled boolean
                - gateway-ip (ipv4-address | ipv6-address)
                - group-best boolean
                - imported-network-instances reference
                - internal-tags string
                - invalid-reason
                   - as-loop boolean
                   - cluster-loop boolean
                   - domain-path-loop boolean
                   - fib-programming-failed boolean
                   - flowspec-rule-programming-failed boolean
                   - flowspec-unsupported-action boolean
                   - flowspec-unsupported-match boolean
                   - flowspec-validation-failed boolean
                   - label-allocation-failed boolean
                   - next-hop-unresolved boolean
                   - rejected-route boolean
                - label
                   - value number
                   - value-type keyword
                - last-modified string
                - neighbor-as number
                - pending-delete boolean
                - route-flap-damping
                   - decayed boolean
```


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```
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
            - mac-ip-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number mac-length number mac-address string ip-address (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - dpath-looped-network-instances reference
               - esi string
               - fib-disabled boolean
               - group-best boolean
               - imported-network-instances reference
               - internal-tags string
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - label1
                  - value number
                  - value-type keyword
               - label2
                  - value number
                  - value-type keyword
               - last-modified string
               - neighbor-as number
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
            - multicast-leave-synch-route route-distinguisher (route-distinguisher-
type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-
type-2b) esi string ethernet-tag-id number multicast-source-length number multicast-
source-address (ipv4-address | ipv6-address) multicast-group-length number multicast-
group-address (ipv4-address | ipv6-address) originating-router (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
               - attr-id reference
               - backup-route boolean
```


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```
                - best-route boolean
                - fib-disabled boolean
                - flags
                   - igmp-mld-version-1 boolean
                   - igmp-mld-version-2 boolean
                   - igmp-version-3 boolean
                   - include-exclude-group-type keyword
                - group-best boolean
                - imported-network-instances reference
                - internal-tags string
                - invalid-reason
                   - as-loop boolean
                   - cluster-loop boolean
                   - domain-path-loop boolean
                   - fib-programming-failed boolean
                   - flowspec-rule-programming-failed boolean
                   - flowspec-unsupported-action boolean
                   - flowspec-unsupported-match boolean
                   - flowspec-validation-failed boolean
                   - label-allocation-failed boolean
                   - next-hop-unresolved boolean
                   - rejected-route boolean
                - last-modified string
                - maximum-response-time number
                - neighbor-as number
                - pending-delete boolean
                - route-flap-damping
                   - decayed boolean
                   - figure-of-merit number
                   - flap-count number
                   - history boolean
                   - reuse-time number
                   - suppressed boolean
                - stale-route boolean
                - tie-break-reason keyword
                - unused-weight-only boolean
                - used-route boolean
                - valid-route boolean
             - multicast-membership-report-synch-route route-distinguisher (route-
distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |
 route-distinguisher-type-2b) esi string ethernet-tag-id number multicast-source-
length number multicast-source-address (ipv4-address | ipv6-address) multicast-group-
length number multicast-group-address (ipv4-address | ipv6-address) originating-router (ipv4-
address | ipv6-address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-
id number
                - attr-id reference
                - backup-route boolean
                - best-route boolean
                - fib-disabled boolean
                - flags
                   - igmp-mld-version-1 boolean
                   - igmp-mld-version-2 boolean
                   - igmp-version-3 boolean
                   - include-exclude-group-type keyword
                - group-best boolean
                - imported-network-instances reference
                - internal-tags string
                - invalid-reason
                   - as-loop boolean
                   - cluster-loop boolean
                   - domain-path-loop boolean
                   - fib-programming-failed boolean
                   - flowspec-rule-programming-failed boolean
                   - flowspec-unsupported-action boolean
```


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```
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
            - smet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number multicast-source-length number multicast-source-address (ipv4-address |
 ipv6-address) multicast-group-length number multicast-group-address (ipv4-address | ipv6-
address) originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - fib-disabled boolean
               - flags
                  - igmp-mld-version-1 boolean
                  - igmp-mld-version-2 boolean
                  - igmp-version-3 boolean
                  - include-exclude-group-type keyword
               - group-best boolean
               - imported-network-instances reference
               - internal-tags string
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
```


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```
               -  valid-route boolean
         -  rib-in-out
            -  rib-in-post
               -  ethernet-ad-route route-distinguisher (route-distinguisher-type-0 |
 route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string ethernet-tag-id number neighbor (ipv4-address-with-zone | ipv6-address-with-
zone) path-id number
                  -  attr-id reference
                  -  backup-route boolean
                  -  best-route boolean
                  -  fib-disabled boolean
                  -  group-best boolean
                  -  internal-tags string
                  -  invalid-reason
                     -  as-loop boolean
                     -  cluster-loop boolean
                     -  domain-path-loop boolean
                     -  fib-programming-failed boolean
                     -  flowspec-rule-programming-failed boolean
                     -  flowspec-unsupported-action boolean
                     -  flowspec-unsupported-match boolean
                     -  flowspec-validation-failed boolean
                     -  label-allocation-failed boolean
                     -  next-hop-unresolved boolean
                     -  rejected-route boolean
                  -  label
                     -  value number
                     -  value-type keyword
                  -  last-modified string
                  -  neighbor-as number
                  -  pending-delete boolean
                  -  route-flap-damping
                     -  decayed boolean
                     -  figure-of-merit number
                     -  flap-count number
                     -  history boolean
                     -  reuse-time number
                     -  suppressed boolean
                  -  stale-route boolean
                  -  tie-break-reason keyword
                  -  unused-weight-only boolean
                  -  used-route boolean
                  -  valid-route boolean
               -  ethernet-segment-route route-distinguisher (route-distinguisher-type-
0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-
zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  backup-route boolean
                  -  best-route boolean
                  -  fib-disabled boolean
                  -  group-best boolean
                  -  internal-tags string
                  -  invalid-reason
                     -  as-loop boolean
                     -  cluster-loop boolean
                     -  domain-path-loop boolean
                     -  fib-programming-failed boolean
                     -  flowspec-rule-programming-failed boolean
                     -  flowspec-unsupported-action boolean
                     -  flowspec-unsupported-match boolean
                     -  flowspec-validation-failed boolean
                     -  label-allocation-failed boolean
                     -  next-hop-unresolved boolean
```


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```
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - imet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - ip-prefix-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number ip-prefix-length number ip-prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - esi string
                  - fib-disabled boolean
                  - gateway-ip (ipv4-address | ipv6-address)
                  - group-best boolean
```


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```
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - label
                     - value number
                     - value-type keyword
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - mac-ip-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number mac-length number mac-address string ip-address (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - esi string
                  - fib-disabled boolean
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - label1
                     - value number
                     - value-type keyword
                  - label2
                     - value number
                     - value-type keyword
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
```


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```
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - multicast-leave-synch-route route-distinguisher (route-distinguisher-
type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-
type-2b) esi string ethernet-tag-id number multicast-source-length number multicast-
source-address (ipv4-address | ipv6-address) multicast-group-length number multicast-
group-address (ipv4-address | ipv6-address) originating-router (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - maximum-response-time number
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - multicast-membership-report-synch-route route-distinguisher (route-
distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |
 route-distinguisher-type-2b) esi string ethernet-tag-id number multicast-source-
length number multicast-source-address (ipv4-address | ipv6-address) multicast-group-
length number multicast-group-address (ipv4-address | ipv6-address) originating-router (ipv4-
address | ipv6-address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-
id number
                  - attr-id reference
```


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```
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
               - smet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number multicast-source-length number multicast-source-address (ipv4-address |
 ipv6-address) multicast-group-length number multicast-group-address (ipv4-address | ipv6-
address) originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
```


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```
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-pre
            - ethernet-ad-route route-distinguisher (route-distinguisher-type-0 |
 route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string ethernet-tag-id number neighbor (ipv4-address-with-zone | ipv6-address-with-
zone) path-id number
               - attr-id reference
               - label
                  - value number
                  - value-type keyword
            - ethernet-segment-route route-distinguisher (route-distinguisher-type-
0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-
zone | ipv6-address-with-zone) path-id number
               - attr-id reference
            - imet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
               - attr-id reference
            - ip-prefix-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number ip-prefix-length number ip-prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
               - attr-id reference
               - esi string
               - gateway-ip (ipv4-address | ipv6-address)
               - label
                  - value number
                  - value-type keyword
            - mac-ip-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number mac-length number mac-address string ip-address (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
               - attr-id reference
               - esi string
               - label1
                  - value number
                  - value-type keyword
               - label2
                  - value number
                  - value-type keyword
            - multicast-leave-synch-route route-distinguisher (route-distinguisher-
type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-
type-2b) esi string ethernet-tag-id number multicast-source-length number multicast-
source-address (ipv4-address | ipv6-address) multicast-group-length number multicast-
group-address (ipv4-address | ipv6-address) originating-router (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
```


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```
                  - attr-id reference
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
                  - maximum-response-time number
               - multicast-membership-report-synch-route route-distinguisher (route-
distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |
 route-distinguisher-type-2b) esi string ethernet-tag-id number multicast-source-
length number multicast-source-address (ipv4-address | ipv6-address) multicast-group-
length number multicast-group-address (ipv4-address | ipv6-address) originating-router (ipv4-
address | ipv6-address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-
id number
                  - attr-id reference
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
               - smet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number multicast-source-length number multicast-source-address (ipv4-address |
 ipv6-address) multicast-group-length number multicast-group-address (ipv4-address | ipv6-
address) originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - flags
                     - igmp-mld-version-1 boolean
                     - igmp-mld-version-2 boolean
                     - igmp-version-3 boolean
                     - include-exclude-group-type keyword
            - rib-out-post
               - ethernet-ad-route route-distinguisher (route-distinguisher-type-0 |
 route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string ethernet-tag-id number neighbor (ipv4-address-with-zone | ipv6-address-with-
zone) path-id number
                  - attr-id reference
                  - label
                     - value number
                     - value-type keyword
                  - next-hop (ipv4-address | ipv6-address)
               - ethernet-segment-route route-distinguisher (route-distinguisher-type-
0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-
2b) esi string originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-
zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - next-hop (ipv4-address | ipv6-address)
               - imet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - next-hop (ipv4-address | ipv6-address)
               - ip-prefix-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-tag-
id number ip-prefix-length number ip-prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - esi string
                  - gateway-ip (ipv4-address | ipv6-address)
                  - label
                     - value number
                     - value-type keyword
```


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```
                  -  next-hop (ipv4-address | ipv6-address)
               -  mac-ip-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number mac-length number mac-address string ip-address (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  esi string
                  -  label1
                     -  value number
                     -  value-type keyword
                  -  label2
                     -  value number
                     -  value-type keyword
                  -  next-hop (ipv4-address | ipv6-address)
               -  multicast-leave-synch-route route-distinguisher (route-distinguisher-
type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-
type-2b) esi string ethernet-tag-id number multicast-source-length number multicast-
source-address (ipv4-address | ipv6-address) multicast-group-length number multicast-
group-address (ipv4-address | ipv6-address) originating-router (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  flags
                     -  igmp-mld-version-1 boolean
                     -  igmp-mld-version-2 boolean
                     -  igmp-version-3 boolean
                     -  include-exclude-group-type keyword
                  -  maximum-response-time number
                  -  next-hop (ipv4-address | ipv6-address)
               -  multicast-membership-report-synch-route route-distinguisher (route-
distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |
 route-distinguisher-type-2b) esi string ethernet-tag-id number multicast-source-
length number multicast-source-address (ipv4-address | ipv6-address) multicast-group-
length number multicast-group-address (ipv4-address | ipv6-address) originating-router (ipv4-
address | ipv6-address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-
id number
                  -  attr-id reference
                  -  flags
                     -  igmp-mld-version-1 boolean
                     -  igmp-mld-version-2 boolean
                     -  igmp-version-3 boolean
                     -  include-exclude-group-type keyword
                  -  next-hop (ipv4-address | ipv6-address)
               -  smet-route route-distinguisher (route-distinguisher-type-0 | route-
distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) ethernet-
tag-id number multicast-source-length number multicast-source-address (ipv4-address |
 ipv6-address) multicast-group-length number multicast-group-address (ipv4-address | ipv6-
address) originating-router (ipv4-address | ipv6-address) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  flags
                     -  igmp-mld-version-1 boolean
                     -  igmp-mld-version-2 boolean
                     -  igmp-version-3 boolean
                     -  include-exclude-group-type keyword
                  -  next-hop (ipv4-address | ipv6-address)
      -  ipv4-flowspec-v1
         -  local-rib
            -  route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) origin-protocol identityref path-id number
               -  attr-id reference
               -  backup-route boolean
               -  best-route boolean
               -  fib-disabled boolean
               -  group-best boolean
```


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```
            - invalid-reason
               - as-loop boolean
               - cluster-loop boolean
               - domain-path-loop boolean
               - fib-programming-failed boolean
               - flowspec-rule-programming-failed boolean
               - flowspec-unsupported-action boolean
               - flowspec-unsupported-match boolean
               - flowspec-validation-failed boolean
               - label-allocation-failed boolean
               - next-hop-unresolved boolean
               - rejected-route boolean
            - last-modified string
            - neighbor-as number
            - nlri-components
               - destination-port string
               - destination-prefix string
               - dscp-mark string
               - flow-label string
               - fragment string
               - icmp-code string
               - icmp-type string
               - ip-protocol string
               - packet-length string
               - port string
               - source-port string
               - source-prefix string
               - tcp-flags string
            - nlri-raw string
            - pending-delete boolean
            - route-flap-damping
               - decayed boolean
               - figure-of-merit number
               - flap-count number
               - history boolean
               - reuse-time number
               - suppressed boolean
            - stale-route boolean
            - tie-break-reason keyword
            - unused-weight-only boolean
            - used-route boolean
            - valid-route boolean
      - rib-in-out
         - rib-in-post
            - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - fib-disabled boolean
               - group-best boolean
               - internal-tags string
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
```


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```
                  - last-modified string
                  - neighbor-as number
                  - nlri-components
                     - destination-port string
                     - destination-prefix string
                     - dscp-mark string
                     - flow-label string
                     - fragment string
                     - icmp-code string
                     - icmp-type string
                     - ip-protocol string
                     - packet-length string
                     - port string
                     - source-port string
                     - source-prefix string
                     - tcp-flags string
                  - nlri-raw string
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - nlri-components
                     - destination-port string
                     - destination-prefix string
                     - dscp-mark string
                     - flow-label string
                     - fragment string
                     - icmp-code string
                     - icmp-type string
                     - ip-protocol string
                     - packet-length string
                     - port string
                     - source-port string
                     - source-prefix string
                     - tcp-flags string
                  - nlri-raw string
            - rib-out-post
               - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - nlri-components
                     - destination-port string
                     - destination-prefix string
                     - dscp-mark string
                     - flow-label string
                     - fragment string
                     - icmp-code string
                     - icmp-type string
                     - ip-protocol string
                     - packet-length string
                     - port string
```


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```
                  -  source-port string
                  -  source-prefix string
                  -  tcp-flags string
               -  nlri-raw string
     -  ipv4-labeled-unicast
        -  local-rib
           -  route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) origin-protocol identityref path-id number
              -  attr-id reference
              -  backup-route boolean
              -  best-route boolean
              -  fib-disabled boolean
              -  group-best boolean
              -  invalid-reason
                 -  as-loop boolean
                 -  cluster-loop boolean
                 -  domain-path-loop boolean
                 -  fib-programming-failed boolean
                 -  flowspec-rule-programming-failed boolean
                 -  flowspec-unsupported-action boolean
                 -  flowspec-unsupported-match boolean
                 -  flowspec-validation-failed boolean
                 -  label-allocation-failed boolean
                 -  next-hop-unresolved boolean
                 -  rejected-route boolean
              -  last-modified string
              -  neighbor-as number
              -  origin-validation-state keyword
              -  pending-delete boolean
              -  received-mpls-label (number | keyword)
              -  route-flap-damping
                 -  decayed boolean
                 -  figure-of-merit number
                 -  flap-count number
                 -  history boolean
                 -  reuse-time number
                 -  suppressed boolean
              -  stale-route boolean
              -  tie-break-reason keyword
              -  unused-weight-only boolean
              -  used-route boolean
              -  valid-route boolean
        -  rib-in-out
           -  rib-in-post
              -  route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                 -  attr-id reference
                 -  backup-route boolean
                 -  best-route boolean
                 -  fib-disabled boolean
                 -  group-best boolean
                 -  internal-tags string
                 -  invalid-reason
                    -  as-loop boolean
                    -  cluster-loop boolean
                    -  domain-path-loop boolean
                    -  fib-programming-failed boolean
                    -  flowspec-rule-programming-failed boolean
                    -  flowspec-unsupported-action boolean
                    -  flowspec-unsupported-match boolean
                    -  flowspec-validation-failed boolean
                    -  label-allocation-failed boolean
                    -  next-hop-unresolved boolean
                    -  rejected-route boolean
```


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```
                  - last-modified string
                  - neighbor-as number
                  - origin-validation-state keyword
                  - pending-delete boolean
                  - received-mpls-label (number | keyword)
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - origin-validation-state keyword
                  - received-mpls-label (number | keyword)
            - rib-out-post
               - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - advertised-mpls-label (number | keyword)
                  - attr-id reference
                  - origin-validation-state keyword
      - ipv4-unicast
         - local-rib
            - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) origin-protocol identityref path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - fib-disabled boolean
               - group-best boolean
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - origin-validation-state keyword
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
```


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```
              - used-route boolean
              - valid-route boolean
        - rib-in-out
           - rib-in-post
              - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                 - attr-id reference
                 - backup-route boolean
                 - best-route boolean
                 - fib-disabled boolean
                 - group-best boolean
                 - internal-tags string
                 - invalid-reason
                    - as-loop boolean
                    - cluster-loop boolean
                    - domain-path-loop boolean
                    - fib-programming-failed boolean
                    - flowspec-rule-programming-failed boolean
                    - flowspec-unsupported-action boolean
                    - flowspec-unsupported-match boolean
                    - flowspec-validation-failed boolean
                    - label-allocation-failed boolean
                    - next-hop-unresolved boolean
                    - rejected-route boolean
                 - last-modified string
                 - neighbor-as number
                 - origin-validation-state keyword
                 - pending-delete boolean
                 - route-flap-damping
                    - decayed boolean
                    - figure-of-merit number
                    - flap-count number
                    - history boolean
                    - reuse-time number
                    - suppressed boolean
                 - stale-route boolean
                 - tie-break-reason keyword
                 - unused-weight-only boolean
                 - used-route boolean
                 - valid-route boolean
           - rib-in-pre
              - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                 - attr-id reference
                 - origin-validation-state keyword
           - rib-out-post
              - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                 - attr-id reference
                 - origin-validation-state keyword
     - ipv6-flowspec-v1
        - local-rib
           - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) origin-protocol identityref path-id number
              - attr-id reference
              - backup-route boolean
              - best-route boolean
              - fib-disabled boolean
              - group-best boolean
              - invalid-reason
                 - as-loop boolean
                 - cluster-loop boolean
                 - domain-path-loop boolean
                 - fib-programming-failed boolean
```


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```
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - nlri-components
                  - destination-port string
                  - destination-prefix string
                  - dscp-mark string
                  - flow-label string
                  - fragment string
                  - icmp-code string
                  - icmp-type string
                  - ip-protocol string
                  - packet-length string
                  - port string
                  - source-port string
                  - source-prefix string
                  - tcp-flags string
               - nlri-raw string
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-out
            - rib-in-post
               - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - nlri-components
                     - destination-port string
                     - destination-prefix string
```


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```
                  - dscp-mark string
                  - flow-label string
                  - fragment string
                  - icmp-code string
                  - icmp-type string
                  - ip-protocol string
                  - packet-length string
                  - port string
                  - source-port string
                  - source-prefix string
                  - tcp-flags string
               - nlri-raw string
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-pre
            - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
               - attr-id reference
               - nlri-components
                  - destination-port string
                  - destination-prefix string
                  - dscp-mark string
                  - flow-label string
                  - fragment string
                  - icmp-code string
                  - icmp-type string
                  - ip-protocol string
                  - packet-length string
                  - port string
                  - source-port string
                  - source-prefix string
                  - tcp-flags string
               - nlri-raw string
         - rib-out-post
            - route crc number nlri-length number nlri neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
               - attr-id reference
               - nlri-components
                  - destination-port string
                  - destination-prefix string
                  - dscp-mark string
                  - flow-label string
                  - fragment string
                  - icmp-code string
                  - icmp-type string
                  - ip-protocol string
                  - packet-length string
                  - port string
                  - source-port string
                  - source-prefix string
                  - tcp-flags string
               - nlri-raw string
     - ipv6-labeled-unicast
```


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```
        - local-rib
           - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) origin-protocol identityref path-id number
              - attr-id reference
              - backup-route boolean
              - best-route boolean
              - fib-disabled boolean
              - group-best boolean
              - invalid-reason
                 - as-loop boolean
                 - cluster-loop boolean
                 - domain-path-loop boolean
                 - fib-programming-failed boolean
                 - flowspec-rule-programming-failed boolean
                 - flowspec-unsupported-action boolean
                 - flowspec-unsupported-match boolean
                 - flowspec-validation-failed boolean
                 - label-allocation-failed boolean
                 - next-hop-unresolved boolean
                 - rejected-route boolean
              - last-modified string
              - neighbor-as number
              - origin-validation-state keyword
              - pending-delete boolean
              - received-mpls-label (number | keyword)
              - route-flap-damping
                 - decayed boolean
                 - figure-of-merit number
                 - flap-count number
                 - history boolean
                 - reuse-time number
                 - suppressed boolean
              - stale-route boolean
              - tie-break-reason keyword
              - unused-weight-only boolean
              - used-route boolean
              - valid-route boolean
        - rib-in-out
           - rib-in-post
              - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                 - attr-id reference
                 - backup-route boolean
                 - best-route boolean
                 - fib-disabled boolean
                 - group-best boolean
                 - internal-tags string
                 - invalid-reason
                    - as-loop boolean
                    - cluster-loop boolean
                    - domain-path-loop boolean
                    - fib-programming-failed boolean
                    - flowspec-rule-programming-failed boolean
                    - flowspec-unsupported-action boolean
                    - flowspec-unsupported-match boolean
                    - flowspec-validation-failed boolean
                    - label-allocation-failed boolean
                    - next-hop-unresolved boolean
                    - rejected-route boolean
                 - last-modified string
                 - neighbor-as number
                 - origin-validation-state keyword
                 - pending-delete boolean
                 - received-mpls-label (number | keyword)
```


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```
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - origin-validation-state keyword
                  - received-mpls-label (number | keyword)
            - rib-out-post
               - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) path-id number
                  - advertised-mpls-label (number | keyword)
                  - attr-id reference
                  - origin-validation-state keyword
      - ipv6-unicast
         - local-rib
            - route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
ipv6-address-with-zone) origin-protocol identityref path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - fib-disabled boolean
               - group-best boolean
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - origin-validation-state keyword
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-out
            - rib-in-post
```


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```
               -  route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  backup-route boolean
                  -  best-route boolean
                  -  fib-disabled boolean
                  -  group-best boolean
                  -  internal-tags string
                  -  invalid-reason
                     -  as-loop boolean
                     -  cluster-loop boolean
                     -  domain-path-loop boolean
                     -  fib-programming-failed boolean
                     -  flowspec-rule-programming-failed boolean
                     -  flowspec-unsupported-action boolean
                     -  flowspec-unsupported-match boolean
                     -  flowspec-validation-failed boolean
                     -  label-allocation-failed boolean
                     -  next-hop-unresolved boolean
                     -  rejected-route boolean
                  -  last-modified string
                  -  neighbor-as number
                  -  origin-validation-state keyword
                  -  pending-delete boolean
                  -  route-flap-damping
                     -  decayed boolean
                     -  figure-of-merit number
                     -  flap-count number
                     -  history boolean
                     -  reuse-time number
                     -  suppressed boolean
                  -  stale-route boolean
                  -  tie-break-reason keyword
                  -  unused-weight-only boolean
                  -  used-route boolean
                  -  valid-route boolean
            -  rib-in-pre
               -  route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  origin-validation-state keyword
            -  rib-out-post
               -  route prefix (ipv4-prefix | ipv6-prefix) neighbor (ipv4-address-with-zone |
 ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  origin-validation-state keyword
      -  l3vpn-ipv4-unicast
         -  local-rib
            -  route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
               -  attr-id reference
               -  backup-route boolean
               -  best-route boolean
               -  dpath-looped-ip-vrf-network-instances reference
               -  fib-disabled boolean
               -  group-best boolean
               -  imported-ip-vrf-network-instances reference
               -  invalid-reason
                  -  as-loop boolean
                  -  cluster-loop boolean
                  -  domain-path-loop boolean
                  -  fib-programming-failed boolean
                  -  flowspec-rule-programming-failed boolean
```


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```
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - origin-validation-state keyword
               - pending-delete boolean
               - received-mpls-label (number | keyword)
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
         - rib-in-out
            - rib-in-post
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - dpath-looped-ip-vrf-network-instances reference
                  - fib-disabled boolean
                  - group-best boolean
                  - imported-ip-vrf-network-instances reference
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - origin-validation-state keyword
                  - pending-delete boolean
                  - received-mpls-label (number | keyword)
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
```


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```
                  - valid-route boolean
            - rib-in-pre
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - dpath-looped-ip-vrf-network-instances reference
                  - imported-ip-vrf-network-instances reference
                  - origin-validation-state keyword
                  - received-mpls-label (number | keyword)
            - rib-out-post
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - advertised-mpls-label (number | keyword)
                  - attr-id reference
                  - origin-validation-state keyword
      - l3vpn-ipv6-unicast
         - local-rib
            - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - dpath-looped-ip-vrf-network-instances reference
               - fib-disabled boolean
               - group-best boolean
               - imported-ip-vrf-network-instances reference
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - origin-validation-state keyword
               - pending-delete boolean
               - received-mpls-label (number | keyword)
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-out
            - rib-in-post
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
```


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```
                  - backup-route boolean
                  - best-route boolean
                  - dpath-looped-ip-vrf-network-instances reference
                  - fib-disabled boolean
                  - group-best boolean
                  - imported-ip-vrf-network-instances reference
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - origin-validation-state keyword
                  - pending-delete boolean
                  - received-mpls-label (number | keyword)
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - dpath-looped-ip-vrf-network-instances reference
                  - imported-ip-vrf-network-instances reference
                  - origin-validation-state keyword
                  - received-mpls-label (number | keyword)
            - rib-out-post
               - route route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b) prefix (ipv4-prefix | ipv6-
prefix) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - advertised-mpls-label (number | keyword)
                  - attr-id reference
                  - origin-validation-state keyword
      - link-state
         - local-rib
            - route nlri-type keyword crc number nlri-length number nlri neighbor (ipv4-
address-with-zone | ipv6-address-with-zone) origin-protocol identityref path-id number
               - attr-id reference
               - backup-route boolean
               - best-route boolean
               - fib-disabled boolean
               - group-best boolean
               - invalid-reason
                  - as-loop boolean
                  - cluster-loop boolean
```


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```
                  - domain-path-loop boolean
                  - fib-programming-failed boolean
                  - flowspec-rule-programming-failed boolean
                  - flowspec-unsupported-action boolean
                  - flowspec-unsupported-match boolean
                  - flowspec-validation-failed boolean
                  - label-allocation-failed boolean
                  - next-hop-unresolved boolean
                  - rejected-route boolean
               - last-modified string
               - neighbor-as number
               - nlri-string string
               - pending-delete boolean
               - route-flap-damping
                  - decayed boolean
                  - figure-of-merit number
                  - flap-count number
                  - history boolean
                  - reuse-time number
                  - suppressed boolean
               - stale-route boolean
               - tie-break-reason keyword
               - unused-weight-only boolean
               - used-route boolean
               - valid-route boolean
         - rib-in-out
            - rib-in-post
               - route nlri-type keyword crc number nlri-length number nlri neighbor (ipv4-
address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - group-best boolean
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - nlri-string string
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
```


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```
               -  route nlri-type keyword crc number nlri-length number nlri neighbor (ipv4-
address-with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  nlri-string string
            -  rib-out-post
               -  route nlri-type keyword crc number nlri-length number nlri neighbor (ipv4-
address-with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  nlri-string string
      -  route-target
         -  rib-in-out
            -  rib-in-post
               -  route origin-as number route-target-prefix string neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  backup-route boolean
                  -  best-route boolean
                  -  fib-disabled boolean
                  -  group-best boolean
                  -  internal-tags string
                  -  invalid-reason
                     -  as-loop boolean
                     -  cluster-loop boolean
                     -  domain-path-loop boolean
                     -  fib-programming-failed boolean
                     -  flowspec-rule-programming-failed boolean
                     -  flowspec-unsupported-action boolean
                     -  flowspec-unsupported-match boolean
                     -  flowspec-validation-failed boolean
                     -  label-allocation-failed boolean
                     -  next-hop-unresolved boolean
                     -  rejected-route boolean
                  -  last-modified string
                  -  neighbor-as number
                  -  pending-delete boolean
                  -  route-flap-damping
                     -  decayed boolean
                     -  figure-of-merit number
                     -  flap-count number
                     -  history boolean
                     -  reuse-time number
                     -  suppressed boolean
                  -  stale-route boolean
                  -  tie-break-reason keyword
                  -  unused-weight-only boolean
                  -  used-route boolean
                  -  valid-route boolean
            -  rib-in-pre
               -  route origin-as number route-target-prefix string neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
            -  rib-out-post
               -  route origin-as number route-target-prefix string neighbor (ipv4-address-
with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
      -  srte-policy-ipv4
         -  rib-in-out
            -  rib-in-post
               -  route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  -  attr-id reference
                  -  backup-route boolean
                  -  best-route boolean
                  -  fib-disabled boolean
```


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```
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
            - rib-out-post
               - route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
      - srte-policy-ipv6
         - rib-in-out
            - rib-in-post
               - route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
                  - backup-route boolean
                  - best-route boolean
                  - fib-disabled boolean
                  - group-best boolean
                  - internal-tags string
                  - invalid-reason
                     - as-loop boolean
                     - cluster-loop boolean
                     - domain-path-loop boolean
                     - fib-programming-failed boolean
                     - flowspec-rule-programming-failed boolean
                     - flowspec-unsupported-action boolean
                     - flowspec-unsupported-match boolean
                     - flowspec-validation-failed boolean
                     - label-allocation-failed boolean
                     - next-hop-unresolved boolean
                     - rejected-route boolean
                  - last-modified string
                  - neighbor-as number
                  - pending-delete boolean
                  - route-flap-damping
```


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```
                     - decayed boolean
                     - figure-of-merit number
                     - flap-count number
                     - history boolean
                     - reuse-time number
                     - suppressed boolean
                  - stale-route boolean
                  - tie-break-reason keyword
                  - unused-weight-only boolean
                  - used-route boolean
                  - valid-route boolean
            - rib-in-pre
               - route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
            - rib-out-post
               - route distinguisher number color number endpoint (ipv4-address | ipv6-
address) neighbor (ipv4-address-with-zone | ipv6-address-with-zone) path-id number
                  - attr-id reference
   - attr-sets
      - attr-set index number
         - aggregator
            - address (ipv4-address | ipv6-address)
            - as-number number
         - aigp number
         - as-path
            - segment as-path-index number
               - member number
               - type keyword
         - atomic-aggregate boolean
         - cluster-list (ipv4-address | ipv6-address)
         - communities
            - community string
            - ext-community string
            - ext-community-raw-format string
            - ipv6-ext-community string
            - large-community string
         - domain-path
            - domain-segment sequence-id number
               - domain sequence-id number
                  - domain-id string
                  - inter-subnet-forwarding-safi-type number
               - domain-segment-length number
         - link-state
            - attr string
         - local-pref number
         - med number
         - next-hop (ipv4-address-with-zone | ipv6-address-with-zone)
         - origin keyword
         - originator-id (ipv4-address | ipv6-address)
         - pmsi-tunnel
            - flags
               - assisted-replication-type keyword
               - leaf-information-required boolean
               - pruned-flood-list
                  - broadcast-multicast keyword
                  - unknown-unicast keyword
            - label
               - value number
               - value-type keyword
            - tunnel-endpoint (ipv4-address | ipv6-address)
            - tunnel-type keyword
         - pmsi-tunnel-mldp
            - flags
```


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```
            - leaf-information-required boolean
         - label
            - value number
         - pmsi-tunnel-attribute
            - opaque-lenght number
            - opaque-value number
            - root-node-address (ipv4-address | ipv6-address)
      - prefix-sid
         - tlv type identityref
            - label-index
               - label-index number
            - srgb-originator
               - srgb string
            - srv6-l2-service
               - sub-tlv type identityref
                  - srv6-sid-information
                     - behavior identityref
                     - sid-value string
                     - sub-sub-tlv type identityref
                        - srv6-sid-structure
                           - argument-length number
                           - block-length number
                           - function-length number
                           - node-length number
                           - transposition-length number
                           - transposition-offset number
            - srv6-l3-service
               - sub-tlv type identityref
                  - srv6-sid-information
                     - behavior identityref
                     - sid-value string
                     - sub-sub-tlv type identityref
                        - srv6-sid-structure
                           - argument-length number
                           - block-length number
                           - function-length number
                           - node-length number
                           - transposition-length number
                           - transposition-offset number
      - tunnel-encapsulation
         - srte-policy
            - sub-tlvs
               - subtlv type identityref
                  - binding-sid
                     - drop-upon-invalid boolean
                     - length number
                     - mpls
                        - bottom-of-stack boolean
                        - label-value number
                        - time-to-live number
                        - traffic-class number
                     - specified-bsid-only boolean
                  - explicit-null-label-policy
                     - value number
                  - preference
                     - value number
                  - priority
                     - value number
                  - segment-list index number
                     - length number
                     - sub-tlvs
                        - segment index number
                           - segment-type-a
                              - mpls
```


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```
                                    -  bottom-of-stack boolean
                                    -  label-value number
                                    -  time-to-live number
                                    -  traffic-class number
                                 -  sid-verification boolean
                              -  type keyword
                           -  weight
                              -  value number
                     -  srte-policy-candidate-path-name
                        -  name string
                     -  srte-policy-name
                        -  name string
            -  tunnel-type identityref
            -  vxlan
               -  sub-tlvs
                  -  subtlv type identityref
                     -  address
                        -  address (ipv4-address | ipv6-address)
                     -  address-family
                        -  address-family identityref
         -  unknown-attributes
            -  unknown-attribute unknown-attr-index number
               -  attr-len number
               -  attr-type number
               -  extended boolean
               -  optional boolean
               -  partial boolean
               -  transitive boolean
+  bridge-table
   +  discard-unknown-dest-mac boolean
   +  mac-duplication
      +  action keyword
      +  admin-state keyword
      -  duplicate-entries
         -  mac address string
            -  destination string
            -  destination-index number
            -  destination-type keyword
            -  dup-detect-time string
            -  hold-down-time-remaining (keyword | number)
      +  hold-down-time (keyword | number)
      +  monitoring-window number
      +  num-moves number
   +  mac-learning
      +  admin-state keyword
      +  aging
         +  admin-state keyword
         +  age-time number
      -  learnt-entries
         -  mac address string
            -  aging (number | keyword)
            -  destination string
            -  last-update string
      -  mac-relearn-only boolean
      -  oper-mac-learning keyword
      -  oper-mac-learning-disabled-reason keyword
   +  mac-limit
      +  maximum-entries number
      +  warning-threshold-pct number
   -  mac-table
      -  mac address string
         -  destination string
         -  destination-index number
         -  destination-type keyword
```


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```
        -  failed-slots number
        -  group-based-policy-tag number
        -  is-protected boolean
        -  last-update string
        -  not-programmed-reason keyword
        -  type keyword
   +  protect-anycast-gw-mac boolean
   +  proxy-arp
      +  admin-state keyword
      -  duplicate-entries
         -  neighbor ipv4-address string
            -  detect-time string
            -  hold-down-time-remaining (keyword | number)
            -  is-immutable boolean
            -  link-layer-address string
            -  state keyword
      -  dynamic-entries
         -  neighbor ipv4-address string
            -  aging (number | keyword)
            -  is-immutable boolean
            -  last-update string
            -  link-layer-address string
            -  state keyword
      +  dynamic-learning
         +  admin-state keyword
         +  age-time (keyword | number)
         +  send-refresh (number | keyword)
      +  evpn
         +  flood
            +  gratuitous-arp boolean
            +  unknown-arp-req boolean
         +  internal-tags
            +  set-tag-set reference
      -  evpn-entries
         -  neighbor ipv4-address string
            -  is-immutable boolean
            -  last-update string
            -  link-layer-address string
            -  state keyword
      +  evpn-local-es
         +  advertise boolean
         +  retention-timer number
      +  ip-duplication
         +  anti-spoof-mac string
         +  hold-down-time (keyword | number)
         +  monitoring-window number
         +  num-moves number
         +  static-blackhole boolean
      -  oper-down-reason keyword
      +  process-arp-probes boolean
      +  static-entries
         +  neighbor ipv4-address string
            -  is-immutable boolean
            -  last-update string
            +  link-layer-address string
            -  state keyword
      -  statistics
         -  active-entries number
         -  in-active-entries number
         -  neighbor-origin origin keyword
            -  active-entries number
            -  in-active-entries number
            -  pending-entries number
            -  total-entries number
```


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```
        -  pending-entries number
        -  total-entries number
     -  table-entries
        -  neighbor ipv4-address string
           -  is-immutable boolean
           -  last-update string
           -  link-layer-address string
           -  origin keyword
           -  state keyword
     +  table-size number
     +  trace-options
        +  flag name keyword
           +  modifier keyword
  +  proxy-nd
     +  admin-state keyword
     -  duplicate-entries
        -  neighbor ipv6-address string
           -  detect-time string
           -  evpn-override boolean
           -  hold-down-time-remaining (keyword | number)
           -  is-immutable boolean
           -  link-layer-address string
           -  state keyword
           -  type keyword
     -  dynamic-entries
        -  neighbor ipv6-address string
           -  aging (number | keyword)
           -  evpn-override boolean
           -  is-immutable boolean
           -  last-update string
           -  link-layer-address string
           -  state keyword
           -  type keyword
     +  dynamic-learning
        +  admin-state keyword
        +  age-time (keyword | number)
        +  send-refresh (number | keyword)
     +  evpn
        +  advertise-neighbor-type keyword
        +  flood
           +  unknown-neighbor-advertise-host boolean
           +  unknown-neighbor-advertise-router boolean
           +  unknown-neighbor-solicitation boolean
        +  internal-tags
           +  set-tag-set reference
     -  evpn-entries
        -  neighbor ipv6-address string
           -  evpn-override boolean
           -  is-immutable boolean
           -  last-update string
           -  link-layer-address string
           -  state keyword
           -  type keyword
     +  evpn-local-es
        +  advertise boolean
        +  retention-timer number
     +  ip-duplication
        +  anti-spoof-mac string
        +  hold-down-time (keyword | number)
        +  monitoring-window number
        +  num-moves number
        +  static-blackhole boolean
     -  oper-down-reason keyword
     +  process-dad-neighbor-solicitations boolean
```


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```
      +  static-entries
         +  neighbor ipv6-address string
            -  evpn-override boolean
            -  is-immutable boolean
            -  last-update string
            +  link-layer-address string
            -  state keyword
            +  type keyword
      -  statistics
         -  active-entries number
         -  in-active-entries number
         -  neighbor-origin origin keyword
            -  active-entries number
            -  in-active-entries number
            -  pending-entries number
            -  total-entries number
         -  pending-entries number
         -  total-entries number
      -  table-entries
         -  neighbor ipv6-address string
            -  evpn-override boolean
            -  is-immutable boolean
            -  last-update string
            -  link-layer-address string
            -  origin keyword
            -  state keyword
            -  type keyword
      +  table-size number
      +  trace-options
         +  flag name keyword
            +  modifier keyword
   -  reserved-macs
      -  mac address string
         -  users application string
   +  split-horizon-group name string
   +  static-mac
      +  mac address string
         +  destination (keyword | subinterface-all | name)
   -  statistics
      -  active-entries number
      -  failed-entries number
      -  mac-type type keyword
         -  active-entries number
         -  failed-entries number
         -  total-entries number
      -  total-entries number
+  connection-point name string
   +  bridge-table
      +  discard-unknown-src-mac boolean
      +  mac-duplication
         +  action keyword
         -  duplicate-entries
            -  mac address string
               -  dup-detect-time string
               -  hold-down-time-remaining (keyword | number)
      +  mac-learning
         +  admin-state keyword
         +  aging
            +  admin-state keyword
         -  learnt-entries
            -  mac address string
               -  aging (number | keyword)
               -  last-update string
      +  mac-limit
```


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```
         +  maximum-entries number
         +  warning-threshold-pct number
      -  mac-table
         -  mac address string
            -  failed-slots number
            -  last-update string
            -  not-programmed-reason keyword
            -  type keyword
      +  split-horizon-group reference
      -  statistics
         -  active-entries number
         -  failed-entries number
         -  mac-type type keyword
            -  active-entries number
            -  failed-entries number
            -  total-entries number
         -  total-entries number
   -  index number
   -  oper-down-reason keyword
   -  oper-state keyword
   +  pseudowire name string
      +  admin-state keyword
      +  control-word boolean
      -  destination-index number
      +  flow-label boolean
      -  flow-label-oper-state keyword
      -  index number
      -  last-change string
      -  local
         -  operational-ingress-vc-label number
         -  pseudowire-status keyword
      -  oper-down-reason keyword
      -  oper-state keyword
      +  pw-tunnel reference
      -  remote
         -  operational-egress-vc-label number
         -  pseudowire-status keyword
      +  signaling
         +  static
            +  egress-vc-label number
            +  ingress-vc-label number
         +  tldp
            +  advertise-l2-mtu number
            +  ignore-mtu-mismatch boolean
            +  virtual-circuit-type keyword
         +  virtual-circuit-identifier number
+  description string
+  flexible-algorithm
   +  flexible-algorithm-definitions
      +  flexible-algorithm-definition flex-algo-id number
         +  admin-state keyword
         -  calc-type number
         +  description string
         +  exclude reference
         +  flags-tlv boolean
         +  include-all reference
         +  include-any reference
         +  metric-type keyword
         -  name string
         +  priority number
   +  global-attributes
      +  extended-admin-groups
         +  group name string
            +  bit-position number
```


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```
   +  interface-attributes
      +  interface interface-name string
         +  extended-admin-group reference
         +  interface-ref
            +  interface reference
            +  subinterface reference
+  group-based-policy
   +  acl
      +  entry sequence-id number
         +  action
            +  accept
            +  collect-stats boolean
            +  drop
            +  log boolean
         +  description string
         +  match
            +  destination-group reference
            +  destination-port
               +  operator keyword
               +  range
                  +  end (number | keyword)
                  +  start (number | keyword)
               +  value (number | keyword)
            +  ip-version keyword
            +  protocol (number | keyword)
            +  source-group reference
            +  source-port
               +  operator keyword
               +  range
                  +  end (number | keyword)
                  +  start (number | keyword)
               +  value (number | keyword)
            +  tcp-flags string
         -  statistics
            -  incomplete boolean
            -  last-clear string
            -  last-match string
            -  matched-packets number
            -  policer
               -  conforming-octets number
               -  conforming-packets number
               -  exceeding-octets number
               -  exceeding-packets number
      -  statistics
   +  group name string
      +  tag-value number
   +  interface interface-name string
      +  group reference
-  icmp
   -  statistics
      -  last-clear string
      -  total
         -  in-error-packets number
         -  in-packets number
         -  out-error-packets number
         -  out-packets number
      -  type name keyword
         -  in-packets number
         -  out-error-packets number
         -  out-packets number
-  icmp6
   -  statistics
      -  last-clear string
      -  total
```


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```
         -  in-error-packets number
         -  in-packets number
         -  out-error-packets number
         -  out-packets number
      -  type name keyword
         -  in-packets number
         -  out-error-packets number
         -  out-packets number
+  inter-instance-policies
   +  apply-policy
      +  export-policy reference
      +  import-policy reference
+  interface name string
   +  bridge-table
      -  mac-relearn-only boolean
      -  multicast-forwarding keyword
      -  oper-mac-learning keyword
      -  oper-mac-learning-disabled-reason keyword
      +  split-horizon-group reference
   +  connection-point reference
   -  index number
   +  interface-ref
      +  interface reference
      +  subinterface reference
   +  mpls
      +  forward-received-packets boolean
   -  oper-down-reason keyword
   -  oper-state keyword
+  ip-load-balancing
   +  dynamic-load-balancing
      +  prefix ip-prefix (ipv4-prefix | ipv6-prefix)
   +  resilient-hash-prefix ip-prefix (ipv4-prefix | ipv6-prefix)
      +  hash-buckets-per-path number
      +  max-paths number
+  ip-tunnel-statistics
   +  ip-in-ip-forwarded boolean
+  mpls
   +  icmp-tunneling boolean
   +  lsps
      +  constrained-path
         x  clear
            i  tunnel-history
         x  dump-fec-to-next-hop-info
            i  destination string
            i  label
               i  end-label (number | keyword)
               i  start-label (number | keyword)
            i  lsp-id number
            i  next-hop string
            i  source string
            o  srl-unstructured-output
               o  line string
            i  tunnel-id number
         x  dump-ilm-info
            i  destination string
            i  label
               i  end-label (number | keyword)
               i  start-label (number | keyword)
            i  lsp-id number
            i  next-hop string
            i  source string
            o  srl-unstructured-output
               o  line string
            i  tunnel-id number
```


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```
         x  dump-te-tunnel-info
            i  destination string
            i  detail
            i  lsp-id number
            i  source string
            o  srl-unstructured-output
               o  line string
            i  tunnel-id number
         x  dump-tunnel-info
            i  detail
            o  srl-unstructured-output
               o  line string
         +  global
            +  exponential-backoff-retry boolean
            +  fast-reroute
               +  admin-group-frr boolean
               -  bypass-next-reoptimization-time string
               +  bypass-reoptimization-timer number
               x  dump-bypass-tunnel-info
                  i  bypass-tunnel-name string
                  o  srl-unstructured-output
                     o  line string
               +  dynamic-bypass boolean
               +  max-bypass-associations number
               +  max-bypass-plr-associations number
               +  srlg-frr keyword
            +  fast-retry
               +  p2p-active-path-fast-retry-timer number
               +  p2p-secondary-path-fast-retry-timer number
            +  hold-timer (number | keyword)
            +  least-fill
               +  min-threshold number
               +  reoptimization-threshold number
            +  lsp-self-ping
               +  enable boolean
               +  interval number
               -  lsp-self-ping-oam-resource-failures number
               -  lsp-self-ping-timeouts number
               +  timeout number
               +  timeout-action keyword
            +  mbb-prefer-current-hops boolean
            +  tunnel-history
               +  admin-state keyword
            +  tunnel-init-retry-timeout number
            +  tunnel-reoptimization
               -  p2p-next-reoptimization-time string
               +  p2p-reoptimization-timer number
         +  named-explicit-path path-name string
            +  admin-state keyword
            +  hop index number
               +  ip-address string
               +  type keyword
            -  oper-state keyword
         +  tunnel tunnel-name string
            +  adaptive boolean
            +  admin-group-constraints
               +  exclude-all reference
               +  include-any reference
            +  admin-state keyword
            x  clear
               i  tunnel-history
            -  create-time string
            x  dump-tunnel-history
               o  srl-unstructured-output
```


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```
      o  line string
x  dump-tunnel-info
   i  detail
   o  srl-unstructured-output
      o  line string
+  fast-reroute
   +  hop-limit number
   +  node-protect boolean
   +  propagate-admin-group boolean
+  hop-limit number
-  last-oper-change-time string
+  metric-type keyword
-  oper-state keyword
-  oper-state-changes number
+  p2p-tunnel-attributes
   -  active-path string
   +  adspec boolean
   -  configured-paths number
   +  destination string
   -  last-path-change-time string
   +  least-fill boolean
   +  lsp-self-ping boolean
   -  lsp-self-ping-oam-resource-failures number
   -  lsp-self-ping-timeouts number
   +  metric number
   -  oper-metric number
   -  operational-paths number
   +  p2p-primary p2p-path-name string
      +  adaptive boolean
      +  admin-group-constraints
         +  exclude-all reference
         +  include-any reference
      +  admin-state keyword
      +  bandwidth number
      -  computed-hop-list
         -  hop hop-index number
            -  abr boolean
            -  hop-type keyword
            -  ip-address (ipv4-address | ipv6-address)
            -  loose boolean
            -  out-interface-admin-group number
            -  router-id (ipv4-address | ipv6-address)
            -  unnumbered-if-id number
      -  computed-metric number
      -  degraded boolean
      -  degraded-reason bits
      +  explicit-path-name reference
      -  fail-code keyword
      -  fail-node-address (ipv4-address | ipv6-address)
      -  fast-reroute
         -  oper-fast-reroute boolean
         -  oper-frr-hop-limit number
         -  oper-frr-node-protect boolean
         -  oper-frr-propagate-admin-group boolean
      -  fast-retry boolean
      +  hop-limit number
      -  init-retry-timer-expiry string
      -  inter-area boolean
      -  last-oper-change-time string
      -  last-reoptimization-attempt string
      -  least-fill-reoptimization-eligible boolean
      -  local-cspf-requests number
      -  lsp-id number
      -  lsp-self-ping-oper-state keyword
```


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```
                - mbb
                  - in-progress-mbb
                    - fail-code keyword
                    - fail-node-address string
                    - init-retry-timer-expiry string
                    - next-retry-attempt string
                    - retry-attempts number
                    - signaled-bw number
                    - start-time string
                    - type keyword
                  - last-mbb
                    - end-time string
                    - fail-code keyword
                    - metric number
                    - signaled-bw number
                    - status keyword
                    - type keyword
                - negotiated-mtu number
                - next-retry-attempt string
                - oper-admin-group-exclude-all number
                - oper-admin-group-include-any number
                - oper-adspec boolean
                - oper-bandwidth number
                - oper-hold-priority number
                - oper-hop-limit number
                - oper-least-fill boolean
                - oper-metric number
                - oper-metric-type keyword
                - oper-mtu number
                - oper-propagate-admin-group boolean
                - oper-record boolean
                - oper-record-label boolean
                - oper-setup-priority number
                - oper-state keyword
                - oper-state-changes number
                - path-state keyword
                + priority
                  + hold-priority number
                  + setup-priority number
                + record boolean
                + record-label boolean
                - recorded-hop-list
                  - hop hop-index number
                    - flags bits
                    - hop-type keyword
                    - ip-address (ipv4-address | ipv6-address)
                    - loose boolean
                    - record-label number
                    - router-id (ipv4-address | ipv6-address)
                    - unnumbered-if-id number
                - retry-attempts number
              + p2p-secondary p2p-path-name string
                + adaptive boolean
                + admin-group-constraints
                  + exclude-all reference
                  + include-any reference
                + admin-state keyword
                + bandwidth number
                - computed-hop-list
                  - hop hop-index number
                    - abr boolean
                    - hop-type keyword
                    - ip-address (ipv4-address | ipv6-address)
                    - loose boolean
```


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```
                        -  out-interface-admin-group number
                        -  router-id (ipv4-address | ipv6-address)
                        -  unnumbered-if-id number
                     -  computed-metric number
                     -  degraded boolean
                     -  degraded-reason bits
                     +  explicit-path-name reference
                     -  fail-code keyword
                     -  fail-node-address (ipv4-address | ipv6-address)
                     -  fast-retry boolean
                     +  hop-limit number
                     -  init-retry-timer-expiry string
                     -  inter-area boolean
                     -  last-oper-change-time string
                     -  last-reoptimization-attempt string
                     -  least-fill-reoptimization-eligible boolean
                     -  local-cspf-requests number
                     -  lsp-id number
                     -  lsp-self-ping-oper-state keyword
                     -  mbb
                        -  in-progress-mbb
                           -  fail-code keyword
                           -  fail-node-address string
                           -  init-retry-timer-expiry string
                           -  next-retry-attempt string
                           -  retry-attempts number
                           -  signaled-bw number
                           -  start-time string
                           -  type keyword
                        -  last-mbb
                           -  end-time string
                           -  fail-code keyword
                           -  metric number
                           -  signaled-bw number
                           -  status keyword
                           -  type keyword
                     -  negotiated-mtu number
                     -  next-retry-attempt string
                     -  oper-admin-group-exclude-all number
                     -  oper-admin-group-include-any number
                     -  oper-adspec boolean
                     -  oper-bandwidth number
                     -  oper-hold-priority number
                     -  oper-hop-limit number
                     -  oper-least-fill boolean
                     -  oper-metric number
                     -  oper-metric-type keyword
                     -  oper-mtu number
                     -  oper-propagate-admin-group boolean
                     -  oper-record boolean
                     -  oper-record-label boolean
                     -  oper-setup-priority number
                     -  oper-state keyword
                     -  oper-state-changes number
                     +  path-preference number
                     -  path-state keyword
                     +  priority
                        +  hold-priority number
                        +  setup-priority number
                     +  record boolean
                     +  record-label boolean
                     -  recorded-hop-list
                        -  hop hop-index number
                           -  flags bits
```


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```
                        -  hop-type keyword
                        -  ip-address (ipv4-address | ipv6-address)
                        -  loose boolean
                        -  record-label number
                        -  router-id (ipv4-address | ipv6-address)
                        -  unnumbered-if-id number
                     -  retry-attempts number
                     +  srlg boolean
                     -  srlg-disjoint boolean
                     +  standby boolean
                  -  path-changes number
                  +  revert-timer number
                  -  revert-timer-expiry string
                  -  standby-paths number
                  +  use-computed-metric boolean
               +  path-computation-method keyword
               +  propagate-admin-group boolean
               +  retry-limit number
               +  retry-timer number
               +  rsvp-resv-style keyword
               +  soft-preemption boolean
               +  source string
               -  tunnel-id number
               +  type keyword
      +  static-lsp name string
            +  egress
               +  incoming-label number
               +  network-instance reference
               +  next-hop index number
                  +  ip-address (ipv4-address | ipv6-address)
                  +  network-instance reference
               +  pipe-mode boolean
            -  oper-down-reason keyword
            -  oper-state keyword
            +  payload-type keyword
   +  static-entry top-label number preference number
      +  admin-state keyword
      +  collect-stats boolean
      -  installed boolean
      +  next-hop-group reference
      +  operation keyword
      -  resolved-next-hop-group-id reference
   +  static-label-block reference
   -  static-label-block-status keyword
+  mpls-forwarding
   +  forward-received-packets boolean
+  mtu
   +  path-mtu-discovery boolean
-  multicast-forwarding-information-base
   -  multicast-route source (ipv4-address | ipv6-address) group (ipv4-address | ipv6-address)
      -  last-update string
      -  outgoing-interface index number
         -  forward boolean
      -  outgoing-next-hop-group index number
         -  forward boolean
+  next-hop-groups
   +  group name string
      +  admin-state keyword
      +  backup-next-hop-group reference
      +  blackhole
         +  generate-icmp boolean
      +  nexthop index number
         +  admin-state keyword
         +  encapsulate-header keyword
```


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```
         +  failure-detection
            +  enable-bfd
               +  local-address (ipv4-address | ipv6-address)
               +  local-discriminator number
               +  remote-discriminator number
         +  gre
            +  destination-ip (ipv4-address-unicast | ipv6-address-unicast)
            +  source-ip (ipv4-address-unicast | ipv6-address-unicast)
         +  interface-ref
            +  interface reference
            +  subinterface reference
         +  ip-address (ipv4-address-with-zone | ipv6-address-with-zone)
         +  pushed-mpls-label-stack (number | keyword)
         +  resolve boolean
         +  tunnel-resolution
            +  algorithm number
            +  allowed-tunnel-types identityref
            +  flex-algo-mode keyword
      +  tunnel-resolution
         +  algorithm number
         +  allowed-tunnel-types identityref
         +  flex-algo-mode keyword
-  oper-down-reason keyword
-  oper-mac-vrf-mtu number
-  oper-state keyword
-  oper-vpws-mtu number
+  policy-forwarding
   +  global-decap-policy reference
   +  global-selective-load-balancing-policy reference
   +  interface subinterface string
      +  apply-forwarding-policy reference
      +  apply-match-action-policy reference
      +  interface-ref
         +  interface reference
         +  subinterface reference
   +  policy policy-id string
      +  collect-stats boolean
      +  counter name string
         -  total-octets number
         -  total-packets number
      +  description string
      +  rule sequence-id number
         +  action
            +  count
               +  counter-name reference
            +  decap-fallback-network-instance reference
            +  decap-network-instance reference
            +  decapsulate-gre boolean
            +  decapsulate-gue boolean
            +  decapsulate-ip-in-ip boolean
            +  decapsulate-mpls-in-udp boolean
            +  down-override keyword
            +  encapsulate-gre
               +  target id string
                  +  destination (ipv4-prefix | ipv6-prefix)
                  +  ip-ttl number
                  +  source (ipv4-address | ipv6-address)
            +  forwarding-action keyword
            +  ipv4-ttl number
            +  ipv6-hop-limit number
            +  load-balance keyword
            +  network-instance reference
            +  next-hop (ipv4-address | ipv6-address)
            +  next-hop-group reference
```


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```
            +  post-decap-network-instance reference
         +  description string
         +  match
            +  address-family keyword
            +  ipv4
               +  destination-ip
                  +  prefix string
                  +  prefix-list reference
               +  dscp-set (number | keyword)
               +  icmp
                  +  code number
                  +  type number
               +  next-hop-group-id number
               +  next-hop-group-network-instance reference
               +  protocol (number | keyword)
               +  source-ip
                  +  prefix string
               +  ttl number
            +  ipv6
               +  destination-ip
                  +  prefix string
               +  dscp-set (number | keyword)
               +  hop-limit number
               +  icmp6
                  +  code number
                  +  type number
               +  next-header (number | keyword)
               +  next-hop-group-id number
               +  next-hop-group-network-instance reference
               +  source-ip
                  +  prefix string
            +  rdma-opcode (string | number)
            +  transport
               +  destination-port (string | number | keyword)
               +  source-port (string | number | keyword)
         -  statistics
            -  matched-octets number
            -  matched-packets number
         -  tcam-entries
            -  forwarding-complex complex-identifier string
               -  tcam-entries number
      +  type keyword
-  programming-errors
   -  ip-routes
      -  drop-route prefix (ipv4-prefix | ipv6-prefix)
         -  forwarding-complexes-with-errors string
         -  time string
      -  failed-route prefix (ipv4-prefix | ipv6-prefix)
         -  forwarding-complexes-with-errors string
         -  time string
      -  stale-route prefix (ipv4-prefix | ipv6-prefix)
         -  forwarding-complexes-with-errors string
         -  time string
      -  total-errors number
   -  tunnel-termination
      -  vxlan
         -  failed-entry dest-ip (ipv4-address | ipv6-address) src-ip (ipv4-address | ipv6-
address)
            -  last-failed-complexes string
            -  time string
+  protocols
   +  bgp
      +  admin-state keyword
      +  afi-safi afi-safi-name identityref
```


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```
        -  active-routes number
        +  add-paths
           +  eligible-prefix-policy reference
           +  receive boolean
           +  send boolean
           +  send-all
           +  send-max number
           +  send-multipath
        +  admin-state keyword
        +  best-path-selection
           +  accumulated-igp boolean
        +  evpn
           +  advertise-ipv6-next-hops boolean
           +  default-received-encapsulation keyword
           +  inter-as-vpn boolean
           +  keep-all-routes boolean
           +  next-hop-resolution
              +  ipv4-next-hops
                 +  route-resolution
                    +  admin-state keyword
                    +  ignore-default-routes boolean
                 +  tunnel-resolution
                    +  allowed-tunnel-types identityref
                    +  selection-attributes
                       +  flex-algo
                          +  mandatory boolean
                       +  tag
                          +  mandatory boolean
              +  ipv6-next-hops
                 +  route-resolution
                    +  admin-state keyword
                    +  ignore-default-routes boolean
                 +  tunnel-resolution
                    +  allowed-tunnel-types identityref
                    +  selection-attributes
                       +  flex-algo
                          +  mandatory boolean
                       +  tag
                          +  mandatory boolean
           +  next-hop-self-route-reflector boolean
           +  rapid-update boolean
        +  export-policy reference
        +  graceful-restart
           +  extended-route-retention
              +  admin-state keyword
              +  default-retention-policy keyword
              +  retention-policy reference
              +  retention-time number
        +  import-policy reference
        +  ipv4-flowspec-v1
           +  validate
              +  dest-prefix boolean
        +  ipv4-labeled-unicast
           +  advertise-ipv6-next-hops boolean
           +  backup-paths
              +  install boolean
           +  convergence
              -  converged-peers number
              -  convergence-state keyword
              -  convergence-time number
              -  first-up-peer-time number
              -  last-up-peer-time number
              +  max-wait-to-advertise number
              -  oper-max-wait-to-advertise number
```


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```
            -  up-peers number
            -  up-peers-when-min-expired number
         +  next-hop-resolution
            +  ipv4-next-hops
               +  route-resolution
                  +  admin-state keyword
                  +  ignore-default-routes boolean
               +  tunnel-resolution
                  +  allowed-tunnel-types identityref
                  +  selection-attributes
                     +  flex-algo
                        +  mandatory boolean
                     +  tag
                        +  mandatory boolean
            +  ipv6-next-hops
               +  route-resolution
                  +  admin-state keyword
                  +  ignore-default-routes boolean
               +  tunnel-resolution
                  +  allowed-tunnel-types identityref
                  +  selection-attributes
                     +  flex-algo
                        +  mandatory boolean
                     +  tag
                        +  mandatory boolean
         +  rapid-update boolean
         +  receive-ipv6-next-hops boolean
      +  ipv4-unicast
         +  advertise-ipv6-next-hops boolean
         +  backup-paths
            +  install boolean
         +  convergence
            -  converged-peers number
            -  convergence-state keyword
            -  convergence-time number
            -  first-up-peer-time number
            -  last-up-peer-time number
            +  max-wait-to-advertise number
            -  oper-max-wait-to-advertise number
            -  up-peers number
            -  up-peers-when-min-expired number
         +  group-based-policy
            +  add-community boolean
            +  install-from-community boolean
         +  next-hop-resolution
            +  ipv4-next-hops
               +  tunnel-resolution
                  +  allowed-tunnel-types identityref
                  +  mode keyword
                  +  selection-attributes
                     +  flex-algo
                        +  mandatory boolean
                     +  tag
                        +  mandatory boolean
            +  ipv6-next-hops
               +  tunnel-resolution
                  +  allowed-tunnel-types identityref
                  +  mode keyword
                  +  selection-attributes
                     +  flex-algo
                        +  mandatory boolean
                     +  tag
                        +  mandatory boolean
         +  receive-ipv6-next-hops boolean
```


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```
      + ipv6-flowspec-v1
        + validate
          + dest-prefix boolean
      + ipv6-labeled-unicast
        + backup-paths
          + install boolean
        + convergence
          - converged-peers number
          - convergence-state keyword
          - convergence-time number
          - first-up-peer-time number
          - last-up-peer-time number
          + max-wait-to-advertise number
          - oper-max-wait-to-advertise number
          - up-peers number
          - up-peers-when-min-expired number
        + next-hop-resolution
          + ipv4-next-hops
            + route-resolution
              + admin-state keyword
              + ignore-default-routes boolean
            + tunnel-resolution
              + allowed-tunnel-types identityref
              + selection-attributes
                + flex-algo
                  + mandatory boolean
                + tag
                  + mandatory boolean
          + ipv6-next-hops
            + route-resolution
              + admin-state keyword
              + ignore-default-routes boolean
            + tunnel-resolution
              + allowed-tunnel-types identityref
              + selection-attributes
                + flex-algo
                  + mandatory boolean
                + tag
                  + mandatory boolean
        + rapid-update boolean
      + ipv6-unicast
        + backup-paths
          + install boolean
        + convergence
          - converged-peers number
          - convergence-state keyword
          - convergence-time number
          - first-up-peer-time number
          - last-up-peer-time number
          + max-wait-to-advertise number
          - oper-max-wait-to-advertise number
          - up-peers number
          - up-peers-when-min-expired number
        + group-based-policy
          + add-community boolean
          + install-from-community boolean
        + next-hop-resolution
          + ipv4-next-hops
            + tunnel-resolution
              + allowed-tunnel-types identityref
              + mode keyword
              + selection-attributes
                + flex-algo
                  + mandatory boolean
```


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```
                     +  tag
                        +  mandatory boolean
               +  ipv6-next-hops
                  +  tunnel-resolution
                     +  allowed-tunnel-types identityref
                     +  mode keyword
                     +  selection-attributes
                        +  flex-algo
                           +  mandatory boolean
                        +  tag
                           +  mandatory boolean
         +  l3vpn-ipv4-unicast
            +  advertise-ipv6-next-hops boolean
            +  convergence
               -  converged-peers number
               -  convergence-state keyword
               -  convergence-time number
               -  first-up-peer-time number
               -  last-up-peer-time number
               +  max-wait-to-advertise number
               -  oper-max-wait-to-advertise number
               -  up-peers number
               -  up-peers-when-min-expired number
            +  inter-as-vpn boolean
            +  keep-all-routes boolean
            +  next-hop-self-route-reflector boolean
            +  rapid-update boolean
            +  receive-ipv6-next-hops boolean
         +  l3vpn-ipv6-unicast
            +  convergence
               -  converged-peers number
               -  convergence-state keyword
               -  convergence-time number
               -  first-up-peer-time number
               -  last-up-peer-time number
               +  max-wait-to-advertise number
               -  oper-max-wait-to-advertise number
               -  up-peers number
               -  up-peers-when-min-expired number
            +  inter-as-vpn boolean
            +  keep-all-routes boolean
            +  next-hop-self-route-reflector boolean
            +  rapid-update boolean
         +  multipath
            +  allow-multiple-as boolean
            +  ebgp
               +  maximum-paths number
               +  weighted-ecmp
                  +  admin-state keyword
            +  ibgp
               +  maximum-paths number
               +  weighted-ecmp
                  +  admin-state keyword
            +  maximum-paths number
         +  origin-validation
            +  admin-state keyword
            -  statistics
               -  invalid-prefixes number
               -  last-updated string
               -  not-found-prefixes number
               -  valid-prefixes number
         -  received-routes number
         +  send-community-type keyword
         +  srte-policy-ipv4
```


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```
            +  import-static boolean
         +  srte-policy-ipv6
            +  import-static boolean
      +  as-path-options
         +  allow-own-as number
         +  remove-private-as
            +  ignore-peer-as boolean
            +  leading-only boolean
            +  mode keyword
      +  authentication
         +  keychain reference
         +  password string
      +  autonomous-system number
      +  best-path-selection
         +  advertise-inactive boolean
         +  always-compare-med boolean
         +  compare-origin-validation-state boolean
         +  ignore-domain-path-length boolean
         +  origin-invalid-unusable boolean
      +  bgp-label
         +  bgp-ipvpn
            +  next-hop-resolution
               +  ipv4-next-hops
                  +  route-resolution
                     +  admin-state keyword
                     +  ignore-default-routes boolean
                  +  tunnel-resolution
                     +  allowed-tunnel-types identityref
                     +  selection-attributes
                        +  flex-algo
                           +  mandatory boolean
                        +  tag
                           +  mandatory boolean
               +  ipv6-next-hops
                  +  route-resolution
                     +  admin-state keyword
                     +  ignore-default-routes boolean
                  +  tunnel-resolution
                     +  allowed-tunnel-types identityref
                     +  selection-attributes
                        +  flex-algo
                           +  mandatory boolean
                        +  tag
                           +  mandatory boolean
         +  bgp-vpn
            +  dynamic-label-block reference
            -  dynamic-label-block-status keyword
         +  labeled-unicast
            +  dynamic-label-block reference
            -  dynamic-label-block-status keyword
            -  label-table
               -  label-entry label-value number
                  -  counters
                     -  octets-forwarded number
                     -  packets-forwarded number
                     -  resource-allocation keyword
                  -  ip-prefix (ipv4-prefix | ipv6-prefix)
            +  selective-labeled-unicast-install
               +  program-label-swap boolean
               +  program-route boolean
            -  tunnel-table
               -  tunnel ip-prefix (ipv4-prefix | ipv6-prefix)
                  -  counters
                     -  octets-forwarded number
```


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```
                  -  packets-forwarded number
                  -  resource-allocation keyword
      +  bmp
         +  admin-state keyword
         +  station name string
            +  address (ipv4-address | ipv6-address)
            +  admin-state keyword
            +  connection-mode keyword
            +  description string
            +  initiation-message string
            +  local-address (ipv4-address | ipv6-address)
            +  local-port number
            +  port number
            +  route-monitoring-policy identityref
            -  state
               -  connection-attempt-count number
               -  last-error string
               -  last-state-change string
               -  messages-failed number
               -  messages-sent number
               -  monitored-peers number
               -  session-state keyword
               -  session-uptime string
            +  statistics-reporting
               +  admin-state keyword
               +  interval number
            +  suppress-rejected-routes boolean
            +  tcp-parameters
               +  authentication
                  +  keychain reference
                  +  password string
               +  connect-retry
                  +  interval number
               +  keepalive
                  +  idle-time number
                  +  probe-count number
                  +  probe-interval number
            +  transport-network-instance reference
         -  statistics
            -  total-peer-down-sent number
            -  total-peer-up-sent number
            -  total-peers-monitored number
            -  total-route-monitoring-sent number
            -  total-statistics-sent number
         +  vrf-distinguisher (route-distinguisher-type-0 | route-distinguisher-type-1 | route-
distinguisher-type-2 | route-distinguisher-type-2b)
      x  clear-malformed-updates
      +  convergence
         +  min-wait-to-advertise number
      +  dynamic-neighbors
         +  accept
            +  match prefix (ipv4-prefix | ipv6-prefix)
               +  allowed-peer-as string
               +  peer-group reference
            +  max-sessions number
         +  interface interface-name string
            +  allowed-peer-as string
            +  max-sessions number
            +  peer-group reference
      +  ebgp-default-policy
         +  export-reject-all boolean
         +  import-reject-all boolean
      +  error-handling
         +  keep-withdrawn-routes
```


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```
            +  max-entries-per-neighbor number
      +  export-policy reference
      +  failure-detection
         +  enable-bfd boolean
         +  fast-failover boolean
      +  graceful-restart
         +  admin-state keyword
         +  requested-restart-time number
         +  stale-routes-time number
      +  group group-name string
         +  admin-state keyword
         +  afi-safi afi-safi-name identityref
            +  add-paths
               +  receive boolean
               +  send boolean
               +  send-all
               +  send-max number
               +  send-multipath
            +  admin-state keyword
            +  allow-aigp boolean
            +  bmp
               +  monitor
                  +  station name reference
                     +  admin-state keyword
                     +  route-monitoring-policy identityref
            +  default-export-policy keyword
            +  default-import-policy keyword
            +  evpn
               +  advertise-ipv6-next-hops boolean
               +  default-received-encapsulation keyword
               +  prefix-limit-accepted
                  +  max-received-routes number
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  +  warning-threshold-pct number
            +  export-policy reference
            +  graceful-restart
               +  extended-route-retention
                  +  admin-state keyword
                  +  default-retention-policy keyword
                  +  retention-policy reference
                  +  retention-time number
            +  import-policy reference
            +  ipv4-flowspec-v1
               +  prefix-limit-accepted
                  +  max-received-routes number
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            +  ipv4-labeled-unicast
               +  advertise-ipv6-next-hops boolean
               +  next-hop-unchanged boolean
               +  prefix-limit-accepted
                  +  max-received-routes number
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
```


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```
      +  receive-ipv6-next-hops boolean
   +  ipv4-unicast
      +  advertise-ipv6-next-hops boolean
      +  link-bandwidth
         +  add-next-hop-count-to-received-bgp-routes (number | keyword)
         +  aggregate-used-paths boolean
         +  auto-from-interface-speed
            +  admin-state keyword
            +  hold-down-time number
            +  transitive boolean
      +  prefix-limit-accepted
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  prefix-limit-received
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  receive-ipv6-next-hops boolean
   +  ipv6-flowspec-v1
      +  prefix-limit-accepted
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  prefix-limit-received
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
   +  ipv6-labeled-unicast
      +  next-hop-unchanged boolean
      +  prefix-limit-accepted
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  prefix-limit-received
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
   +  ipv6-unicast
      +  link-bandwidth
         +  add-next-hop-count-to-received-bgp-routes (number | keyword)
         +  aggregate-used-paths boolean
         +  auto-from-interface-speed
            +  admin-state keyword
            +  hold-down-time number
            +  transitive boolean
      +  prefix-limit-accepted
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  prefix-limit-received
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
   +  l3vpn-ipv4-unicast
      +  advertise-ipv6-next-hops boolean
      +  prefix-limit-accepted
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
      +  prefix-limit-received
         +  max-received-routes number
         +  prevent-teardown boolean
         +  warning-threshold-pct number
```


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```
            +  receive-ipv6-next-hops boolean
         +  l3vpn-ipv6-unicast
            +  prefix-limit-accepted
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
         +  link-state
            +  prefix-limit-accepted
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
         +  multipath
            +  ebgp
               +  weighted-ecmp
                  +  admin-state keyword
            +  ibgp
               +  weighted-ecmp
                  +  admin-state keyword
         +  origin-validation
            +  admin-state keyword
            -  statistics
               -  invalid-prefixes number
               -  last-updated string
               -  not-found-prefixes number
               -  valid-prefixes number
         +  route-target
            +  prefix-limit-accepted
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  send-default-route boolean
         +  send-community-type keyword
         +  srte-policy-ipv4
            +  prefix-limit-accepted
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
         +  srte-policy-ipv6
            +  prefix-limit-accepted
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               +  prevent-teardown boolean
               +  warning-threshold-pct number
      +  as-path-options
         +  allow-own-as number
```


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```
            +  remove-private-as
               +  ignore-peer-as boolean
               +  leading-only boolean
               +  mode keyword
            +  replace-peer-as boolean
         +  authentication
            +  keychain reference
            +  password string
         x  clear-malformed-updates
         +  description string
         +  error-handling
            +  keep-withdrawn-routes
               +  max-entries-per-neighbor number
         +  export-policy reference
         +  failure-detection
            +  enable-bfd boolean
            +  fast-failover boolean
         +  graceful-restart
            +  admin-state keyword
            +  requested-restart-time number
            +  stale-routes-time number
         +  import-policy reference
         +  local-as
            +  as-number number
            +  prepend-global-as boolean
            +  prepend-local-as boolean
         +  local-preference number
         -  maintenance-group string
         +  multihop
            +  admin-state keyword
            +  maximum-hops number
         +  next-hop-self boolean
         +  optional-attributes
            +  block-prefix-sid boolean
         +  peer-as number
         +  route-flap-damping boolean
         +  route-reflector
            +  client boolean
            +  cluster-id (number | dotted-quad)
         +  send-default-route
            +  export-policy reference
            +  ipv4-unicast boolean
            +  ipv6-unicast boolean
         -  statistics
            -  disabled-peers number
            -  dynamic-peers number
            -  path-memory number
            -  total-active-routes number
            -  total-paths number
            -  total-peers number
            -  total-prefixes number
            -  total-received-routes number
            -  up-peers number
         +  timers
            +  connect-retry number
            +  hold-time number
            +  keepalive-interval number
            +  minimum-advertisement-interval number
            +  prefix-limit-restart-timer (keyword | number)
         +  trace-options
            +  flag name keyword
               +  modifier keyword
         +  transport
            +  local-address (ipv4-address | ipv6-address | subinterface-all)
```


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```
            +  mtu-discovery boolean
            +  passive-mode boolean
            +  tcp-mss number
         -  under-maintenance boolean
      +  import-policy reference
      +  instance-name string
      +  local-preference number
      -  maintenance-group string
      +  max-ecmp-hash-buckets-per-next-hop-group number
      +  neighbor peer-address (ipv4-address-with-zone | ipv6-address-with-zone)
         +  admin-state keyword
         -  advertised-capabilities keyword
         +  afi-safi afi-safi-name identityref
            -  active-routes number
            +  add-paths
               +  receive boolean
               +  send boolean
               +  send-all
               +  send-max number
               +  send-multipath
            +  admin-state keyword
            +  allow-aigp boolean
            +  bmp
               +  monitor
                  -  route-monitoring-messages-sent number
                  +  station name reference
                     +  admin-state keyword
                     +  route-monitoring-policy identityref
            +  default-export-policy keyword
            +  default-import-policy keyword
            +  evpn
               +  advertise-ipv6-next-hops boolean
               +  default-received-encapsulation keyword
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  warning-threshold-pct number
            +  export-policy reference
            +  graceful-restart
               +  extended-route-retention
                  +  admin-state keyword
                  +  default-retention-policy keyword
                  -  extended-retention-active boolean
                  -  remaining-retention-time number
                  +  retention-policy reference
                  +  retention-time number
            +  import-policy reference
            +  ipv4-flowspec-v1
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            +  ipv4-labeled-unicast
               +  advertise-ipv6-next-hops boolean
```


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```
            +  next-hop-unchanged boolean
            +  prefix-limit-accepted
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  receive-ipv6-next-hops boolean
         +  ipv4-unicast
            +  advertise-ipv6-next-hops boolean
            +  link-bandwidth
               +  add-next-hop-count-to-received-bgp-routes (number | keyword)
               +  aggregate-used-paths boolean
               +  auto-from-interface-speed
                  +  admin-state keyword
                  +  hold-down-time number
                  +  transitive boolean
            +  prefix-limit-accepted
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  receive-ipv6-next-hops boolean
         +  ipv6-flowspec-v1
            +  prefix-limit-accepted
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
         +  ipv6-labeled-unicast
            +  next-hop-unchanged boolean
            +  prefix-limit-accepted
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
            +  prefix-limit-received
               +  max-received-routes number
               -  prefix-limit-exceeded boolean
               +  prevent-teardown boolean
               +  warning-threshold-pct number
         +  ipv6-unicast
            +  link-bandwidth
               +  add-next-hop-count-to-received-bgp-routes (number | keyword)
               +  aggregate-used-paths boolean
               +  auto-from-interface-speed
                  +  admin-state keyword
                  +  hold-down-time number
                  +  transitive boolean
            +  prefix-limit-accepted
```


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```
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            +  l3vpn-ipv4-unicast
               +  advertise-ipv6-next-hops boolean
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  receive-ipv6-next-hops boolean
            +  l3vpn-ipv6-unicast
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            +  link-state
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            -  oper-state keyword
            +  origin-validation
               +  admin-state keyword
               -  statistics
                  -  invalid-prefixes number
                  -  last-updated string
                  -  not-found-prefixes number
                  -  valid-prefixes number
            -  received-routes number
            -  received-routes-withdrawn-due-to-error number
            -  rejected-routes number
            +  route-target
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
```


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```
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  send-default-route boolean
            +  send-community-type keyword
            -  sent-routes number
            +  srte-policy-ipv4
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            +  srte-policy-ipv6
               +  prefix-limit-accepted
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
               +  prefix-limit-received
                  +  max-received-routes number
                  -  prefix-limit-exceeded boolean
                  +  prevent-teardown boolean
                  +  warning-threshold-pct number
            -  suppressed-routes number
         +  as-path-options
            +  allow-own-as number
            +  remove-private-as
               +  ignore-peer-as boolean
               +  leading-only boolean
               +  mode keyword
            +  replace-peer-as boolean
         +  authentication
            +  keychain reference
            +  password string
            -  transmit-active boolean
         x  clear-malformed-updates
         +  description string
         -  discovered-by-lldp boolean
         -  dynamic-neighbor boolean
         +  error-handling
            +  keep-withdrawn-routes
               +  max-entries-per-neighbor number
         -  established-transitions number
         +  export-policy reference
         +  failure-detection
            +  enable-bfd boolean
            +  fast-failover boolean
         +  graceful-restart
            +  admin-state keyword
            -  helper-active boolean
            -  last-restart-time string
            -  local-capability
               -  afi-safi name identityref
            -  local-restarting boolean
            -  mode keyword
            -  neighbor-capability
               -  afi-safi name identityref
                  -  forwarding-preserved boolean
               -  restart-time number
            -  number-of-restarts number
```


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```
            +  requested-restart-time number
            +  stale-routes-time number
         +  import-policy reference
         -  last-bmp-peer-down string
         -  last-bmp-peer-up string
         -  last-establish-exit-event keyword
         -  last-established string
         -  last-event keyword
         -  last-prefix-limit-exceeded string
         -  last-state keyword
         +  local-as
            +  as-number number
            +  prepend-global-as boolean
            +  prepend-local-as boolean
         +  local-preference number
         -  maintenance-group string
         -  malformed-updates
            -  entry afi-safi keyword sequence-number number entry-id number
               -  attr-id number
               -  decoded-attribute-codes string
               -  decoded-attributes-hex string
               -  decoded-attributes-length number
               -  malformation-level keyword
               -  malformed-attribute-codes string
               -  malformed-attributes-hex string
               -  malformed-attributes-length number
               -  nlri-hex string
               -  nlri-length number
               -  path-id number
               -  prefix (ipv4-prefix | ipv6-prefix)
               -  raw-update-hex string
               -  raw-update-length number
               -  reason-string string
               -  timestamp string
         +  multihop
            +  admin-state keyword
            +  maximum-hops number
         +  next-hop-self boolean
         +  optional-attributes
            +  block-prefix-sid boolean
         +  peer-as number
         +  peer-group reference
         -  peer-router-id string
         -  peer-type keyword
         -  received-afi-safi identityref
         -  received-capabilities keyword
         -  received-end-of-rib identityref
         -  received-messages
            -  last-notification-error-code keyword
            -  last-notification-error-subcode keyword
            -  last-notification-time string
            -  last-update-time string
            -  malformed-updates number
            -  queue-depth number
            -  route-refresh number
            -  total-messages number
            -  total-non-updates number
            -  total-notifications number
            -  total-updates number
         +  route-flap-damping boolean
         +  route-reflector
            +  client boolean
            +  cluster-id (number | dotted-quad)
         +  send-default-route
```


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```
            +  export-policy reference
            +  ipv4-unicast boolean
            +  ipv6-unicast boolean
         -  sent-end-of-rib identityref
         -  sent-messages
            -  last-notification-error-code keyword
            -  last-notification-error-subcode keyword
            -  last-notification-time string
            -  queue-depth number
            -  route-refresh number
            -  total-messages number
            -  total-non-updates number
            -  total-notifications number
            -  total-updates number
         -  session-state keyword
         -  slow-peer keyword
         +  timers
            +  connect-retry number
            +  hold-time number
            +  keepalive-interval number
            +  minimum-advertisement-interval number
            -  negotiated-hold-time number
            -  negotiated-keepalive-interval number
            -  next-connect-retry-time string
            +  prefix-limit-restart-timer (keyword | number)
         +  trace-options
            +  flag name keyword
               +  modifier keyword
         +  transport
            +  local-address (ipv4-address | ipv6-address | subinterface-all)
            -  local-port number
            +  mtu-discovery boolean
            +  passive-mode boolean
            -  remote-port number
            +  tcp-mss number
         -  under-maintenance boolean
      +  next-hop-resolution-policy reference
      -  oper-state keyword
      -  origin-validation
         -  statistics
            -  invalid-prefixes number
            -  last-updated string
            -  not-found-prefixes number
            -  valid-prefixes number
      +  preference
         +  ebgp number
         +  ibgp number
      +  rib-management
         +  table address-family identityref
            +  route-table-import reference
      +  route-advertisement
         +  rapid-withdrawal boolean
         +  wait-for-fib-install boolean
      +  route-flap-damping
         +  half-life number
         +  max-suppress-time number
         +  reuse-threshold number
         +  suppress-threshold number
      +  route-reflector
         +  client boolean
         +  cluster-id (number | dotted-quad)
      +  router-id (ipv4-address | ipv6-address)
      +  rpki
         -  roa-entries
```


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```
            -  ipv4
               -  roa-entry prefix string origin-as number max-prefix-
length number session string
                  -  entry-state keyword
                  -  entry-type keyword
                  -  network-instance string
            -  ipv6
               -  roa-entry prefix string origin-as number max-prefix-
length number session string
                  -  entry-state keyword
                  -  entry-type keyword
                  -  network-instance string
         +  session name string
            +  admin-state keyword
            +  cache-server (ipv4-address | ipv6-address)
            +  connect-retry number
            +  description string
            +  hold-time number
            +  local-address (ipv4-address | ipv6-address)
            +  network-instance reference
            +  port number
            +  refresh-time number
            -  roa-entries
               -  ipv4
                  -  roa-entry prefix string origin-as number max-prefix-length number
                     -  entry-state keyword
               -  ipv6
                  -  roa-entry prefix string origin-as number max-prefix-length number
                     -  entry-state keyword
            +  stale-time number
            -  state
               -  connection-attempts number
               -  last-update-time string
               -  roa-entries-active number
               -  roa-entries-received number
               -  serial-number number
               -  session-id number
               -  session-state keyword
               -  statistics
                  -  errors number
                  -  in-cache-reset number
                  -  in-cache-response number
                  -  in-end-of-data number
                  -  in-messages number
                  -  in-serial-notify number
                  -  out-messages number
                  -  out-reset-query number
                  -  out-serial-query number
               -  uptime string
            +  trace-options
               +  all
               +  flag keyword
         +  static-roa prefix (ipv4-prefix | ipv6-prefix) origin-as number max-prefix-
length number
            +  entry-type keyword
      +  segment-routing-mpls
         +  admin-state keyword
      -  statistics
         -  disabled-peers number
         -  dynamic-peers number
         -  path-memory number
         -  total-active-routes number
         -  total-decayed-routes number
         -  total-history-routes number
```


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```
         -  total-paths number
         -  total-peers number
         -  total-prefixes number
         -  total-received-routes number
         -  total-suppressed-routes number
         -  up-peers number
      +  trace-options
         +  flag name keyword
            +  modifier keyword
      +  transport
         +  mtu-discovery boolean
         +  single-hop-connected-check boolean
         +  tcp-mss number
      -  under-maintenance boolean
   +  bgp-evpn
      +  bgp-instance id reference
         +  admin-state keyword
         +  dpath-domain-id string
         +  ecmp number
         +  encapsulation-type keyword
         +  evi number
         +  group-based-policy
            +  add-community boolean
            +  install-from-community boolean
         +  ignore-mtu-mismatch boolean
         +  internal-tags
            +  set-tag-set reference
         +  mpls
            +  bridge-table
               -  ingress-multicast-mpls-label number
               -  ingress-unicast-mpls-label number
               -  multicast-destinations
                  -  destination tep (ipv4-address | ipv6-address) evi-label number tunnel-
id number
                     -  destination-index number
                     -  multicast-forwarding keyword
                     -  not-programmed-reason keyword
                  -  multicast-limit
                     -  current-usage number
                     -  maximum-entries number
               +  split-horizon-group reference
               -  statistics
                  -  active-entries number
                  -  failed-entries number
                  -  mac-type type keyword
                     -  active-entries number
                     -  failed-entries number
                     -  total-entries number
                  -  total-entries number
               -  unicast-destinations
                  -  destination tep (ipv4-address | ipv6-address) evi-label number tunnel-
id number
                     -  destination-index number
                     -  mac-table
                        -  mac address string
                           -  failed-slots number
                           -  last-update string
                           -  not-programmed-reason keyword
                           -  type keyword
                     -  not-programmed-reason keyword
                     -  statistics
                        -  active-entries number
                        -  failed-entries number
                        -  mac-type type keyword
```


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```
                           -  active-entries number
                           -  failed-entries number
                           -  total-entries number
                        -  total-entries number
                  -  es-destination esi string
                     -  destination tep (ipv4-address | ipv6-address) evi-label number tunnel-
id number
                     -  destination-index number
                     -  mac-table
                        -  mac address string
                           -  failed-slots number
                           -  last-update string
                           -  not-programmed-reason keyword
                           -  type keyword
                     -  statistics
                        -  active-entries number
                        -  failed-entries number
                        -  mac-type type keyword
                           -  active-entries number
                           -  failed-entries number
                           -  total-entries number
                        -  total-entries number
            +  control-word boolean
            +  flow-label boolean
            +  next-hop-resolution
               +  allowed-tunnel-types identityref
               +  selection-attributes
                  +  flex-algo
                     +  mandatory boolean
                  +  tag
                     +  mandatory boolean
            +  route-table
               -  ingress-mpls-label number
         +  multi-homing-mode keyword
         -  oper-down-reason keyword
         -  oper-state keyword
         +  routes
            +  bridge-table
               +  inclusive-mcast
                  +  advertise boolean
                  +  advertise-l2-attributes-extended-community boolean
                  +  originating-ip (ipv4-address | ipv6-address)
               +  mac-ip
                  +  advertise boolean
                  +  advertise-arp-nd-extended-community boolean
               +  next-hop (keyword | ipv4-address | ipv6-address)
               +  vlan-aware-bundle-eth-tag number
            +  route-table
               +  ip-prefix
                  +  advertise-interface-ful boolean
                  +  anycast-multi-homing
                     +  ip-address ipv4-address-unicast
                  +  evpn-interface-less-gateway-ip
                     +  advertise
                     +  resolve
                        +  admin-state keyword
                        +  max-ecmp-hash-buckets-per-next-hop-group number
                  +  evpn-link-bandwidth
                     +  advertise
                        +  maximum-dynamic-weight number
                        +  weight (number | keyword)
                     +  weighted-ecmp
                        +  admin-state keyword
                        +  max-ecmp-hash-buckets-per-next-hop-group number
```


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```
               +  mac-ip
                  +  advertise-gateway-mac boolean
         +  supplementary-broadcast-domain
            +  evpn-multicast-gateway
               +  admin-state keyword
               +  dr-election
                  +  timers
                     +  dr-activation-timer number
               +  dr-election-state
                  +  algorithm
                     -  oper-type keyword
                  -  dr-info
                     -  computed-designated-router-candidates
                        -  designated-router-candidate address (ipv4-address | ipv6-address)
                           -  add-time string
                           -  designated-router boolean
                     -  designated-router-activation-start-time string
                     -  designated-router-activation-time number
                     -  designated-router-role-last-change string
               +  gateway-type keyword
               +  non-dr-attract-traffic boolean
         +  vpws-attachment-circuits
            +  local
               +  local-attachment-circuit name string
                  +  connection-point reference
                  +  ethernet-tag number
                  -  ingress-mpls-label number
            +  remote
               +  remote-attachment-circuit name string
                  +  connection-point reference
                  -  destinations
                     -  mpls
                        -  destination tep (ipv4-address | ipv6-address) evi-
label number tunnel-id number
                           -  destination-index number
                           -  not-programmed-reason keyword
                        -  es-destination esi string
                           -  destination tep (ipv4-address | ipv6-address) evi-
label number tunnel-id number
                           -  destination-index number
                           -  not-programmed-reason keyword
                     -  srv6
                        -  destination tep (ipv4-address | ipv6-address) sid string
                           -  destination-index number
                           -  not-programmed-reason keyword
                        -  es-destination esi string
                           -  destination tep (ipv4-address | ipv6-address) sid string
                           -  destination-index number
                           -  not-programmed-reason keyword
                  +  ethernet-tag number
         +  vxlan-interface reference
      +  optimized-inter-subnet-multicast-forwarding
   +  bgp-ipvpn
      +  bgp-instance id reference
         +  admin-state keyword
         +  dpath-domain-id string
         +  ecmp number
         +  encapsulation-type keyword
         +  internal-tags
            +  set-tag-set reference
         +  mpls
            -  ingress-mpls-label number
            +  next-hop-resolution
               +  allowed-tunnel-types identityref
```


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```
               +  selection-attributes
                  +  flex-algo
                     +  mandatory boolean
                  +  tag
                     +  mandatory boolean
         -  oper-down-reason keyword
         -  oper-state keyword
   +  bgp-vpn
      +  allow-export
      +  backup-paths
         +  ipv4-unicast
            +  install boolean
         +  ipv6-unicast
            +  install boolean
      +  bgp-instance id number
         +  export-policy reference
         +  import-policy reference
         -  oper-down-reason keyword
         +  route-distinguisher
            +  rd (route-distinguisher-type-0 | route-distinguisher-type-1 | route-
distinguisher-type-2 | route-distinguisher-type-2b)
            -  route-distinguisher-origin keyword
         +  route-target
            -  export-route-target-origin keyword
            +  export-rt (string | string | string | string | string | string | string | string
 | string | string | string)
            -  import-route-target-origin keyword
            +  import-rt (string | string | string | string | string | string | string | string
 | string | string | string)
      +  combined-ecmp
      +  local-routes-dpath-domain-id string
      +  next-hop-resolution-policy reference
   +  gribi
      +  admin-state keyword
      +  default-metric number
      +  default-preference number
      +  max-ecmp-hash-buckets-per-next-hop-group number
      +  maximum-routes number
      -  oper-state keyword
   +  igmp
      +  admin-state keyword
      -  group-count number
      +  interface interface-name string
         +  admin-state keyword
         -  group-count number
         +  import-policy reference
         +  maximum-number-group-sources number
         +  maximum-number-groups number
         +  maximum-number-sources number
         -  membership-groups
            -  group group string
               -  expiry-time number
               -  filter-mode keyword
               -  group-type keyword
               -  igmp-compatibility-mode keyword
               -  last-reporter (ipv4-address | ipv6-address)
               -  source source string
                  -  expiry-time number
                  -  forwarding-state keyword
                  -  source-type keyword
                  -  up-time string
               -  up-time string
               -  v1-host-timer number
               -  v2-host-timer number
```


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```
        -  oper-state keyword
        -  oper-version number
        -  querier
           -  address string
           -  expiry-time number
           -  up-time string
        +  query-interval number
        +  query-last-member-interval number
        +  query-response-interval number
        +  router-alert-check boolean
        +  ssm
           +  mappings
              +  group-range start string end string
                 +  source source string
        +  static-membership-groups
           +  group-range start string end string
              +  source source string
              +  starg
        -  statistics
           -  error
              -  bad-encoding number
              -  bad-length number
              -  import-policy-drops number
              -  local-scope number
              -  missing-router-alert number
              -  non-local number
              -  out-of-memory-drops number
              -  reached-maximum-number-group-sources number
              -  reached-maximum-number-groups number
              -  reached-maximum-number-sources number
              -  reserved-scope number
              -  unknown-type number
              -  wrong-version number
           -  multicast-states
              -  source-group-entries number
              -  star-group-entries number
           -  received
              -  drops number
              -  general-queries number
              -  group-queries number
              -  group-source-queries number
              -  leaves number
              -  v1-reports number
              -  v2-reports number
              -  v3-reports number
           -  transmitted
              -  errors number
              -  general-queries number
              -  group-queries number
              -  group-source-queries number
        +  subnet-check boolean
        +  version number
     -  membership-groups
        -  group group string
           -  source source string
              -  blocked-interface interface-name string
              -  forwarding-interface interface-name string
     -  oper-state keyword
     +  query-interval number
     +  query-last-member-interval number
     +  query-response-interval number
     +  robust-count number
     +  ssm
        +  mappings
```


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```
            +  group-range start string end string
               +  source source string
      -  statistics
      +  trace-options
         +  trace
            +  interface
               +  all
               +  name reference
            +  packet
               +  interface
                  +  all
                  +  name reference
               +  modifier keyword
               +  type keyword
      -  version
   +  igmp-snooping
      +  admin-state keyword
      +  interface interface-name string
         +  fast-leave boolean
         +  import-policy reference
         -  is-mrouter-port boolean
         +  maximum-number-group-sources number
         +  maximum-number-groups number
         +  maximum-number-sources number
         -  membership-group-count number
         -  membership-groups
            -  group group string
               -  expiry-time number
               -  filter-mode keyword
               -  group-type keyword
               -  igmp-compatibility-mode keyword
               -  source source string
                  -  expiry-time number
                  -  forwarding-state keyword
                  -  source-type keyword
                  -  up-time string
               -  up-time string
               -  v1-host-timer number
               -  v2-host-timer number
         +  mrouter-port boolean
         +  query-interval number
         +  query-last-member-interval number
         +  query-response-interval number
         +  robust-count number
         +  router-alert-check boolean
         +  send-queries boolean
         +  static-membership-groups
            +  group group string
               +  source source string
               +  starg
         -  statistics
            -  error
               -  bad-encoding number
               -  bad-igmp-checksum number
               -  bad-length number
               -  discarded-bgp-join-sync number
               -  discarded-bgp-leave-sync number
               -  import-policy-drops number
               -  local-scope number
               -  missing-router-alert number
               -  out-of-memory-discarded-packets number
               -  reached-maximum-number-group-sources number
               -  reached-maximum-number-groups number
               -  reached-maximum-number-sources number
```


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```
            -  send-query-configured-discarded-packets number
            -  unknown-type number
            -  wrong-version number
            -  zero-source-ip-address number
         -  forwarded
            -  error-packets number
            -  general-queries number
            -  group-queries number
            -  group-source-queries number
            -  leave-messages number
            -  unknown-type number
            -  v1-reports number
            -  v2-reports number
            -  v3-reports number
         -  multicast-states
            -  source-group-entries number
            -  star-group-entries number
         -  received
            -  bgp-join-sync number
            -  bgp-leave-sync number
            -  discarded-packets number
            -  general-queries number
            -  group-queries number
            -  group-source-queries number
            -  leave-messages number
            -  v1-reports number
            -  v2-reports number
            -  v3-reports number
         -  transmitted
            -  bgp-join-sync number
            -  bgp-leave-sync number
            -  error-packets number
            -  general-queries number
            -  group-queries number
            -  group-source-queries number
            -  leave-messages number
            -  v1-reports number
            -  v2-reports number
            -  v3-reports number
      +  version number
   -  membership-groups
      -  group group string
         -  source source string
   -  multicast-routers address string
      -  expiry-time number
      -  igmp-v3-states
         -  general-query-interval number
         -  general-response-interval number
         -  robust-count number
      -  interface string
      -  up-time string
      -  version number
   -  oper-state keyword
   -  proxy-evpn-membership-group-count number
   -  proxy-evpn-membership-groups
      -  group group string
         -  filter-mode keyword
         -  source source string
            -  up-time string
         -  up-time string
         -  v1-support boolean
         -  v2-support boolean
         -  v3-support boolean
   -  proxy-membership-group-count number
```


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```
      -  proxy-membership-groups
         -  group group string
            -  filter-mode keyword
            -  source source string
               -  up-time string
            -  up-time string
      -  querier
         -  address string
         -  expiry-time number
         -  igmp-v3-states
            -  general-query-interval number
            -  general-response-interval number
            -  robust-count number
         -  interface string
         -  up-time string
         -  version number
      +  query-interval number
      +  query-source-address string
      +  report-source-address string
      +  robust-count number
      -  statistics
      +  trace-options
         +  trace
            +  packet
               +  interface interface-name string
               +  modifier keyword
               +  source-mac source-mac string
      -  transmitted-bgp-smet-routes number
      -  vxlan-destination vtep (ipv4-address | ipv6-address) vni number
         -  index number
         -  is-evpn-proxy boolean
         -  is-mrouter-port boolean
         -  is-sbd boolean
         -  membership-group-count number
         -  membership-groups
            -  group group string
               -  expiry-time number
               -  filter-mode keyword
               -  group-type keyword
               -  igmp-compatibility-mode keyword
               -  source source string
                  -  expiry-time number
                  -  forwarding-state keyword
                  -  source-type keyword
                  -  up-time string
               -  up-time string
               -  v1-host-timer number
               -  v2-host-timer number
         -  oper-down-reason keyword
         -  oper-state keyword
         -  statistics
            -  discarded-smet number
            -  received-smet number
   +  isis
      +  dynamic-label-block reference
      -  dynamic-label-block-status keyword
      +  instance name string
         +  admin-state keyword
         +  attached-bit
            +  ignore boolean
            +  suppress boolean
         +  authentication
            +  csnp-authentication
               +  check-received keyword
```


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```
            +  generate boolean
         +  hello-authentication
            +  check-received keyword
            +  generate boolean
         +  key
            +  auth-password string
            +  crypto-algorithm keyword
         +  keychain reference
         +  lsp-authentication
            +  check-received keyword
            +  generate boolean
         +  psnp-authentication
            +  check-received keyword
            +  generate boolean
      +  auto-cost
         +  reference-bandwidth number
      +  enable-csnp-on-p2p-links boolean
      +  export-policy reference
      +  graceful-restart
         +  acceptable-duration number
         +  helper-mode boolean
      +  hello-padding keyword
      -  hostnames
         -  system-id host-system-id string
            -  hostname string
      +  iid-tlv boolean
      +  instance-id number
      +  inter-level-propagation-policies
         +  level1-to-level2
            +  summary-address ip-prefix (ipv4-prefix | ipv6-prefix)
               +  route-tag number
      +  interface interface-name string
         -  adjacencies
         -  adjacency neighbor-system-id string adjacency-level string
            -  adjacency-sid value number
               -  address-family keyword
               -  backup boolean
               -  fib-programming
                  -  label-table-entry keyword
                  -  tunnel-table-entry keyword
               -  local boolean
               -  persistent boolean
               -  set boolean
               -  weight number
            -  area-address string
            -  designated-is-system-id string
            -  down-reason keyword
            -  internal-idx number
            -  last-up-down-transition string
            -  local-extended-circuit-id number
            -  mt-id number
            -  neighbor-circuit-type keyword
            -  neighbor-extended-circuit-id number
            -  neighbor-hostname string
            -  neighbor-ipv4 string
            -  neighbor-ipv6 string
            -  neighbor-last-restart (keyword | date-and-time-delta)
            -  neighbor-priority number
            -  neighbor-restart-capable boolean
            -  neighbor-restart-status keyword
            -  neighbor-restarts number
            -  neighbor-snpa string
            -  nlpid keyword
            -  remaining-adj-sid-holdtime number
```


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```
      -  remaining-holdtime number
      -  state keyword
      -  up-down-transitions number
   +  admin-state keyword
   +  authentication
      +  hello-authentication
         +  check-received keyword
         +  generate boolean
      +  key
         +  auth-password string
         +  crypto-algorithm keyword
      +  keychain reference
   -  circuit-id number
   +  circuit-type keyword
   +  delay
      +  delay-selection keyword
      +  normalization
         +  admin-state keyword
         +  delay-tolerance-interval number
         +  minimum-delay number
      -  unidirectional-minimum-link-delay (number | keyword)
   +  hello-padding keyword
   +  interface-ref
      +  interface reference
      +  subinterface reference
   +  ipv4-unicast
      +  admin-state keyword
      +  enable-bfd boolean
      +  include-bfd-tlv boolean
   +  ipv6-unicast
      +  admin-state keyword
      +  enable-bfd boolean
      +  include-bfd-tlv boolean
   +  ldp-synchronization
      +  disable
      -  duration number
      +  end-of-lib boolean
      +  hold-down-timer number
      -  sync-state keyword
   +  level level-number number
      +  authentication
         +  hello-authentication
            +  check-received keyword
            +  generate boolean
         +  key
            +  auth-password string
            +  crypto-algorithm keyword
         +  keychain reference
      +  disable boolean
      +  ipv4-unicast boolean
      +  ipv6-unicast boolean
      +  ipv6-unicast-metric number
      +  metric number
      +  passive boolean
      +  priority number
      -  statistics
         -  pdu pdu-name keyword
            -  dropped number
            -  processed number
            -  received number
            -  sent number
      +  timers
         +  hello-interval number
         +  hello-multiplier number
```


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```
            +  loopfree-alternate-exclude boolean
            -  oper-state keyword
            +  passive boolean
            +  segment-routing
               +  mpls
                  +  flex-algo flex-algo-id reference
                     +  ipv4-node-sid
                        +  index number
                     +  ipv6-node-sid
                        +  index number
                  +  ipv4-adjacency-sid
                     +  assignment keyword
                     +  static number
                  +  ipv4-node-sid
                     +  index number
                  +  ipv6-adjacency-sid
                     +  assignment keyword
                     +  static number
                  +  ipv6-node-sid
                     +  index number
               -  statistics
                  -  adjacency-changes number
                  -  adjacency-number number
                  -  area-address-mismatches number
                  -  authentication-failures number
                  -  authentication-type-failures number
                  -  designated-is-changes number
                  -  max-area-address-mismatches number
                  -  rejected-adjacencies number
                  -  system-id-length-mismatches number
               +  timers
                  +  csnp-interval number
                  +  lsp-pacing-interval number
               +  trace-options
                  +  trace keyword
               +  weighted-ecmp
                  +  load-balancing-weight (number | keyword)
            +  ipv4-unicast
               +  admin-state keyword
               +  suppress-interface-ip keyword
            +  ipv6-unicast
               +  admin-state keyword
               +  multi-topology boolean
               +  suppress-interface-ip keyword
            +  ldp-synchronization
               +  end-of-lib boolean
               +  hold-down-timer number
            +  level level-number number
               +  authentication
                  +  csnp-authentication
                     +  check-received keyword
                     +  generate boolean
                  +  hello-authentication
                     +  check-received keyword
                     +  generate boolean
                  +  key
                     +  auth-password string
                     +  crypto-algorithm keyword
                  +  keychain reference
                  +  lsp-authentication
                     +  check-received keyword
                     +  generate boolean
                  +  psnp-authentication
                     +  check-received keyword
```


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```
            +  generate boolean
         +  bgp-ls-exclude boolean
         -  link-state-database
            -  lsp lsp-id string
               -  checksum number
               -  flags keyword
               -  id-length number
               -  is-type number
               -  maximum-area-addresses number
               -  pdu-length number
               -  pdu-type keyword
               -  remaining-lifetime number
               -  sequence-number number
               -  tlvs
                  -  tlv type identityref
                     -  area-address
                        -  address string
                     -  authentication
                        -  authentication-key string
                        -  crypto-type keyword
                     -  extended-ipv4-reachability
                        -  prefixes
                           -  prefix prefix string
                              -  metric number
                              -  s-bit boolean
                              -  subtlvs
                                 -  subtlv type identityref
                                    -  flags
                                       -  flags keyword
                                       -  type identityref
                                    -  flexible-algorithm-prefix-metrics
                                       -  flexible-algorithm-prefix-metric algorithm number
                                          -  metric number
                                          -  type identityref
                                    -  ipv4-source-router-id
                                       -  router-id string
                                       -  type identityref
                                    -  ipv6-source-router-id
                                       -  router-id string
                                       -  type identityref
                                    -  prefix-sids
                                       -  prefix-sid value number
                                          -  algorithm number
                                          -  flags keyword
                                    -  tag
                                       -  tag32 number
                                    -  tag64
                                       -  tag64 number
                              -  undefined-subtlvs
                                 -  undefined-subtlv type number
                                    -  length number
                                    -  value binary
                              -  up-down boolean
                     -  extended-is-reachability
                        -  neighbors
                           -  neighbor system-id string
                              -  instances
                                 -  instance id number
                                    -  metric number
                                    -  subtlvs
                                       -  subtlv type identityref
                                          -  adjacency-sids
                                             -  adjacency-sid value number
                                                -  flags keyword
```


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```
                                                  - weight number
                                               - admin-group
                                                  - admin-group number
                                               - application-specific-link-attributes
                                                  - application-specific-link-
attribute instance number
                                                     - flexible-algorithm boolean
                                                     - legacy boolean
                                                     - loop-free-alternate boolean
                                                     - rsvp-te boolean
                                                     - sr-policy boolean
                                                     - sub-sub-tlvs
                                                        - admin-group number
                                                        - maximum-link-bandwidth number
                                                        - min-max-unidirectional-link-delay
                                                           - anomolous boolean
                                                           - max-delay number
                                                           - min-delay number
                                                        - sub-sub-tlv type identityref
                                                           - admin-group
                                                              - admin-group number
                                                           - extended-admin-group
                                                              - extended-admin-group number
                                                           - max-link-bandwidth
                                                              - bandwidth number
                                                           - min-max-link-delay
                                                              - a-bit boolean
                                                              - max-delay number
                                                              - min-delay number
                                                           - te-default-metric
                                                              - metric number
                                                        - te-default-metric number
                                                  - type identityref
                                               - available-bandwidth
                                                  - bandwidth number
                                                  - type identityref
                                               - bandwidth-constraints
                                                  - bandwidth-constraint model-id number
                                                     - constraints
                                                        - constraint constraint-id number
                                                           - bandwidth binary
                                               - extended-admin-group
                                                  - extended-admin-group number
                                               - ipv4-interface-address
                                                  - address string
                                               - ipv4-neighbor-address
                                                  - address string
                                               - ipv6-interface-address
                                                  - address string
                                               - ipv6-neighbor-address
                                                  - address string
                                               - lan-adjacency-sids
                                                  - lan-adjacency-sid value number
                                                     - flags keyword
                                                     - neighbor-id string
                                                     - weight number
                                               - link-attributes
                                                  - local-protection keyword
                                               - link-delay
                                                  - a-bit boolean
                                                  - delay number
                                               - link-delay-variation
                                                  - delay number
                                               - link-id
```


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```
                                    - local number
                                    - remote number
                                 - link-loss
                                    - a-bit boolean
                                    - link-loss number
                                 - link-protection-type
                                    - type keyword
                                 - max-link-bandwidth
                                    - bandwidth number
                                 - max-reservable-link-bandwidth
                                    - bandwidth number
                                 - min-max-link-delay
                                    - a-bit boolean
                                    - max-delay number
                                    - min-delay number
                                 - residual-bandwidth
                                    - bandwidth number
                                 - srv6-adjacency-sids
                                    - srv6-adjacency-sid address string
                                       - algorithm number
                                       - behavior keyword
                                       - flags keyword
                                       - sub-sub-tlvs
                                          - sub-sub-tlv type identityref
                                             - srv6-sid-structure
                                                - argument-length number
                                                - block-length number
                                                - function-length number
                                                - node-length number
                                       - weight number
                                 - srv6-lan-adjacency-sids
                                    - srv6-lan-adjacency-sid address string
                                       - algorithm number
                                       - behavior keyword
                                       - flags keyword
                                       - neighbor-id string
                                       - sub-sub-tlvs
                                          - sub-sub-tlv type identityref
                                             - srv6-sid-structure
                                                - argument-length number
                                                - block-length number
                                                - function-length number
                                                - node-length number
                                       - weight number
                                 - te-default-metric
                                    - metric number
                                 - unconstrained-lsp
                                    - count number
                                    - type identityref
                                 - unreserved-bandwidth
                                    - setup-priority priority number
                                       - bandwidth number
                                 - utilized-bandwidth
                                    - bandwidth number
                                    - type identityref
                              - undefined-subtlvs
                                 - undefined-subtlv type number
                                    - length number
                                    - value binary
                        - hostname
                           - hostname string
                        - instance-ids
                           - instance-id instance-id number
                              - topology-id number
```


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```
                        - ipv4-external-reachability
                          - prefixes
                             - prefix prefix string
                                - default-metric
                                   - flags keyword
                                   - metric number
                                - delay-metric
                                   - flags keyword
                                   - metric number
                                - error-metric
                                   - flags keyword
                                   - metric number
                                - expense-metric
                                   - flags keyword
                                   - metric number
                                - up-down boolean
                        - ipv4-interface-addresses
                          - address string
                        - ipv4-internal-reachability
                          - prefixes
                             - prefix prefix string
                                - default-metric
                                   - flags keyword
                                   - metric number
                                - delay-metric
                                   - flags keyword
                                   - metric number
                                - error-metric
                                   - flags keyword
                                   - metric number
                                - expense-metric
                                   - flags keyword
                                   - metric number
                                - up-down boolean
                        - ipv4-srlgs
                          - ipv4-srlg instance-number number
                             - flags keyword
                             - ipv4-interface-address string
                             - ipv4-neighbor-address string
                             - psn-number number
                             - srlg-value number
                             - system-id string
                        - ipv4-te-router-id
                          - router-id string
                        - ipv6-interface-addresses
                          - address string
                        - ipv6-reachability
                          - prefixes
                             - prefix prefix string
                                - metric number
                                - s-bit boolean
                                - subtlvs
                                   - subtlv type identityref
                                      - flags
                                         - flags keyword
                                         - type identityref
                                      - flexible-algorithm-prefix-metrics
                                         - flexible-algorithm-prefix-metric algorithm number
                                            - metric number
                                            - type identityref
                                      - ipv4-source-router-id
                                         - router-id string
                                         - type identityref
                                      - ipv6-source-router-id
```


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```
                                    - router-id string
                                    - type identityref
                                 - prefix-sids
                                    - prefix-sid value number
                                       - algorithm number
                                       - flags keyword
                                 - tag
                                    - tag32 number
                                 - tag64
                                    - tag64 number
                              - undefined-subtlvs
                                 - undefined-subtlv type number
                                    - length number
                                    - value binary
                              - up-down boolean
                              - x-bit boolean
                        - ipv6-srlgs
                           - ipv6-srlg instance-number number
                              - flags keyword
                              - ipv6-interface-address string
                              - ipv6-neighbor-address string
                              - psn-number number
                              - srlg-value number
                              - system-id string
                        - ipv6-te-router-id
                           - router-id string
                        - is-alias-id
                           - alias-id string
                        - is-reachability
                           - neighbors
                              - neighbor system-id string
                                 - default-metric
                                    - flags keyword
                                    - metric number
                                 - delay-metric
                                    - flags keyword
                                    - metric number
                                 - error-metric
                                    - flags keyword
                                    - metric number
                                 - expense-metric
                                    - flags keyword
                                    - metric number
                        - isis-neighbor-attribute
                           - neighbors
                              - neighbor system-id string
                                 - instances
                                    - instance id number
                                       - metric number
                                       - subtlvs
                                          - subtlv type identityref
                                             - adjacency-sids
                                                - adjacency-sid value number
                                                   - flags keyword
                                                   - weight number
                                             - admin-group
                                                - admin-group number
                                             - available-bandwidth
                                                - bandwidth binary
                                                - type identityref
                                             - bandwidth-constraints
                                                - bandwidth-constraint model-id number
                                                   - constraints
                                                      - constraint constraint-id number
```


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```
                - bandwidth binary
- extended-admin-group
   - extended-admin-group number
- ipv4-interface-address
   - address string
- ipv4-neighbor-address
   - address string
- ipv6-interface-address
   - address string
- ipv6-neighbor-address
   - address string
- lan-adjacency-sids
   - lan-adjacency-sid value number
      - flags keyword
      - neighbor-id string
      - weight number
- link-attributes
   - local-protection keyword
- link-delay
   - a-bit boolean
   - delay number
- link-delay-variation
   - delay number
- link-id
   - local number
   - remote number
- link-loss
   - a-bit boolean
   - link-loss number
- link-protection-type
   - type keyword
- max-link-bandwidth
   - bandwidth binary
- max-reservable-link-bandwidth
   - bandwidth binary
- min-max-link-delay
   - a-bit boolean
   - max-delay number
   - min-delay number
- residual-bandwidth
   - bandwidth number
- srv6-adjacency-sids
   - srv6-adjacency-sid address string
      - algorithm number
      - behavior keyword
      - flags keyword
      - sub-sub-tlvs
         - sub-sub-tlv type identityref
            - srv6-sid-structure
               - argument-length number
               - block-length number
               - function-length number
               - node-length number
      - weight number
- srv6-lan-adjacency-sids
   - srv6-lan-adjacency-sid address string
      - algorithm number
      - behavior keyword
      - flags keyword
      - neighbor-id string
      - sub-sub-tlvs
         - sub-sub-tlv type identityref
            - srv6-sid-structure
               - argument-length number
```


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```
                                        - block-length number
                                        - function-length number
                                        - node-length number
                                    - weight number
                                - te-default-metric
                                    - metric number
                                - unconstrained-lsp
                                    - count number
                                    - type identityref
                                - unreserved-bandwidth
                                    - setup-priority priority number
                                        - bandwidth binary
                                - utilized-bandwidth
                                    - bandwidth binary
                                    - type identityref
                            - undefined-subtlvs
                                - undefined-subtlv type number
                                    - length number
                                    - value binary
                - lsp-buffer-size
                    - size number
                - mt-ipv4-reachability
                    - prefixes
                        - prefix prefix string mt-id number
                            - metric number
                            - s-bit boolean
                            - subtlvs
                                - subtlv type identityref
                                    - flags
                                        - flags keyword
                                        - type identityref
                                    - flexible-algorithm-prefix-metrics
                                        - flexible-algorithm-prefix-metric algorithm number
                                            - metric number
                                            - type identityref
                                    - ipv4-source-router-id
                                        - router-id string
                                        - type identityref
                                    - ipv6-source-router-id
                                        - router-id string
                                        - type identityref
                                    - prefix-sids
                                        - prefix-sid value number
                                            - algorithm number
                                            - flags keyword
                                    - tag
                                        - tag32 number
                                    - tag64
                                        - tag64 number
                            - undefined-subtlvs
                                - undefined-subtlv type number
                                    - length number
                                    - value binary
                            - up-down boolean
                - mt-ipv6-reachability
                    - prefixes
                        - prefix prefix string mt-id number
                            - metric number
                            - s-bit boolean
                            - subtlvs
                                - subtlv type identityref
                                    - flags
                                        - flags keyword
                                        - type identityref
```


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```
                                    - flexible-algorithm-prefix-metrics
                                       - flexible-algorithm-prefix-metric algorithm number
                                          - metric number
                                          - type identityref
                                    - ipv4-source-router-id
                                       - router-id string
                                       - type identityref
                                    - ipv6-source-router-id
                                       - router-id string
                                       - type identityref
                                    - prefix-sids
                                       - prefix-sid value number
                                          - algorithm number
                                          - flags keyword
                                    - tag
                                       - tag32 number
                                    - tag64
                                       - tag64 number
                                 - undefined-subtlvs
                                    - undefined-subtlv type number
                                       - length number
                                       - value binary
                                 - up-down boolean
                                 - x-bit boolean
                           - mt-isis-neighbor-attribute
                              - neighbors
                                 - neighbor mt-id number system-id string
                                    - instances
                                       - instance id number
                                          - metric number
                                          - subtlvs
                                             - subtlv type identityref
                                                - adjacency-sids
                                                   - adjacency-sid value number
                                                      - flags keyword
                                                      - weight number
                                                - admin-group
                                                   - admin-group number
                                                - application-specific-link-attributes
                                                   - application-specific-link-
attribute instance number
                                                      - flexible-algorithm boolean
                                                      - legacy boolean
                                                      - loop-free-alternate boolean
                                                      - rsvp-te boolean
                                                      - sr-policy boolean
                                                      - sub-sub-tlvs
                                                         - admin-group number
                                                         - maximum-link-bandwidth number
                                                         - min-max-unidirectional-link-delay
                                                            - anomolous boolean
                                                            - max-delay number
                                                            - min-delay number
                                                         - sub-sub-tlv type identityref
                                                            - admin-group
                                                               - admin-group number
                                                            - extended-admin-group
                                                               - extended-admin-group number
                                                            - max-link-bandwidth
                                                               - bandwidth number
                                                            - min-max-link-delay
                                                               - a-bit boolean
                                                               - max-delay number
                                                               - min-delay number
```


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```
                  - te-default-metric
                     - metric number
               - te-default-metric number
            - type identityref
      - available-bandwidth
         - bandwidth number
         - type identityref
      - bandwidth-constraints
         - bandwidth-constraint model-id number
            - constraints
               - constraint constraint-id number
                  - bandwidth binary
      - extended-admin-group
         - extended-admin-group number
      - ipv4-interface-address
         - address string
      - ipv4-neighbor-address
         - address string
      - ipv6-interface-address
         - address string
      - ipv6-neighbor-address
         - address string
      - lan-adjacency-sids
         - lan-adjacency-sid value number
            - flags keyword
            - neighbor-id string
            - weight number
      - link-attributes
         - local-protection keyword
      - link-delay
         - a-bit boolean
         - delay number
      - link-delay-variation
         - delay number
      - link-id
         - local number
         - remote number
      - link-loss
         - a-bit boolean
         - link-loss number
      - link-protection-type
         - type keyword
      - max-link-bandwidth
         - bandwidth number
      - max-reservable-link-bandwidth
         - bandwidth number
      - min-max-link-delay
         - a-bit boolean
         - max-delay number
         - min-delay number
      - residual-bandwidth
         - bandwidth number
      - srv6-adjacency-sids
         - srv6-adjacency-sid address string
            - algorithm number
            - behavior keyword
            - flags keyword
            - sub-sub-tlvs
               - sub-sub-tlv type identityref
                  - srv6-sid-structure
                     - argument-length number
                     - block-length number
                     - function-length number
                     - node-length number
```


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```
                                        - weight number
                                    - srv6-lan-adjacency-sids
                                        - srv6-lan-adjacency-sid address string
                                            - algorithm number
                                            - behavior keyword
                                            - flags keyword
                                            - neighbor-id string
                                            - sub-sub-tlvs
                                                - sub-sub-tlv type identityref
                                                    - srv6-sid-structure
                                                        - argument-length number
                                                        - block-length number
                                                        - function-length number
                                                        - node-length number
                                            - weight number
                                    - te-default-metric
                                        - metric number
                                    - unconstrained-lsp
                                        - count number
                                        - type identityref
                                    - unreserved-bandwidth
                                        - setup-priority priority number
                                            - bandwidth number
                                    - utilized-bandwidth
                                        - bandwidth number
                                        - type identityref
                                - undefined-subtlvs
                                    - undefined-subtlv type number
                                        - length number
                                        - value binary
                        - mt-isn
                            - neighbors
                                - neighbor mt-id number system-id string
                                    - instances
                                        - instance id number
                                            - metric number
                                            - subtlvs
                                                - subtlv type identityref
                                                    - adjacency-sids
                                                        - adjacency-sid value number
                                                            - flags keyword
                                                            - weight number
                                                    - admin-group
                                                        - admin-group number
                                                    - application-specific-link-attributes
                                                        - application-specific-link-
attribute instance number
                                                            - flexible-algorithm boolean
                                                            - legacy boolean
                                                            - loop-free-alternate boolean
                                                            - rsvp-te boolean
                                                            - sr-policy boolean
                                                            - sub-sub-tlvs
                                                                - admin-group number
                                                                - maximum-link-bandwidth number
                                                                - min-max-unidirectional-link-delay
                                                                    - anomolous boolean
                                                                    - max-delay number
                                                                    - min-delay number
                                                                - sub-sub-tlv type identityref
                                                                    - admin-group
                                                                        - admin-group number
                                                                    - extended-admin-group
                                                                        - extended-admin-group number
```


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```
                        - max-link-bandwidth
                          - bandwidth number
                        - min-max-link-delay
                          - a-bit boolean
                          - max-delay number
                          - min-delay number
                        - te-default-metric
                          - metric number
                    - te-default-metric number
                - type identityref
            - available-bandwidth
              - bandwidth number
              - type identityref
            - bandwidth-constraints
              - bandwidth-constraint model-id number
                - constraints
                  - constraint constraint-id number
                    - bandwidth binary
            - extended-admin-group
              - extended-admin-group number
            - ipv4-interface-address
              - address string
            - ipv4-neighbor-address
              - address string
            - ipv6-interface-address
              - address string
            - ipv6-neighbor-address
              - address string
            - lan-adjacency-sids
              - lan-adjacency-sid value number
                - flags keyword
                - neighbor-id string
                - weight number
            - link-attributes
              - local-protection keyword
            - link-delay
              - a-bit boolean
              - delay number
            - link-delay-variation
              - delay number
            - link-id
              - local number
              - remote number
            - link-loss
              - a-bit boolean
              - link-loss number
            - link-protection-type
              - type keyword
            - max-link-bandwidth
              - bandwidth number
            - max-reservable-link-bandwidth
              - bandwidth number
            - min-max-link-delay
              - a-bit boolean
              - max-delay number
              - min-delay number
            - residual-bandwidth
              - bandwidth number
            - srv6-adjacency-sids
              - srv6-adjacency-sid address string
                - algorithm number
                - behavior keyword
                - flags keyword
                - sub-sub-tlvs
```


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```
                                    - sub-sub-tlv type identityref
                                       - srv6-sid-structure
                                          - argument-length number
                                          - block-length number
                                          - function-length number
                                          - node-length number
                                 - weight number
                              - srv6-lan-adjacency-sids
                                 - srv6-lan-adjacency-sid address string
                                    - algorithm number
                                    - behavior keyword
                                    - flags keyword
                                    - neighbor-id string
                                    - sub-sub-tlvs
                                       - sub-sub-tlv type identityref
                                          - srv6-sid-structure
                                             - argument-length number
                                             - block-length number
                                             - function-length number
                                             - node-length number
                                    - weight number
                              - te-default-metric
                                 - metric number
                              - unconstrained-lsp
                                 - count number
                                 - type identityref
                              - unreserved-bandwidth
                                 - setup-priority priority number
                                    - bandwidth number
                              - utilized-bandwidth
                                 - bandwidth number
                                 - type identityref
                        - undefined-subtlvs
                           - undefined-subtlv type number
                              - length number
                              - value binary
                  - multi-topology
                     - topologies
                        - topology mt-id number
                           - attributes keyword
                  - nlpid
                     - nlpid keyword
                  - purge-oi
                     - received-system-id string
                     - source-system-id string
                     - system-id-count number
                  - router-capabilities
                     - capability instance-number number
                        - flags keyword
                        - router-id string
                        - subtlvs
                           - subtlv type identityref
                              - flexible-algorithm-definitions
                                 - flexible-algorithm-definition flex-algorithm number
                                    - calculation-type number
                                    - exclude number
                                    - exclude-srlg number
                                    - fad-flags keyword
                                    - include-all number
                                    - include-any number
                                    - metric-type keyword
                                    - priority number
                              - node-msds
                                 - bmi-msd number
```


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```
                                    - erld-msd number
                                    - med-msd number
                                    - mep-msd number
                                    - mhe-msd number
                                    - msl-msd number
                                 - sbfd-discriminators
                                    - discriminator number
                                 - segment-routing-algorithms
                                    - flex-algo number
                                    - standard-algorithm keyword
                                 - segment-routing-capability
                                    - flags keyword
                                    - srgb-descriptors
                                       - srgb-descriptor range number
                                          - label number
                                 - srv6-capabilities
                                    - flags keyword
                           - srv6-locator
                              - locators
                                 - locator prefix string mtid number
                                    - algorithm number
                                    - flags keyword
                                    - metric number
                                    - subtlvs
                                       - subtlv type identityref
                                          - flags
                                             - flags keyword
                                             - type identityref
                                          - ipv4-source-router-id
                                             - router-id string
                                             - type identityref
                                          - ipv6-source-router-id
                                             - router-id string
                                             - type identityref
                                          - srv6-end-sids
                                             - srv6-end-sid address string
                                                - behavior keyword
                                                - sub-sub-tlvs
                                                   - sub-sub-tlv type identityref
                                                      - srv6-sid-structure
                                                         - argument-length number
                                                         - block-length number
                                                         - function-length number
                                                         - node-length number
                                          - tag
                                             - tag32 number
                                          - tag64
                                             - tag64 number
                     - undefined-tlvs
                        - undefined-tlv type number
                           - length number
                           - value binary
                     - version number
                     - version2 number
                  + loopfree-alternate-exclude boolean
                  + metric-style keyword
                  + route-preference
                     + external number
                     + internal number
                  - statistics
                     - authentication-failures number
                     - authentication-type-failures number
                     - corrupted-lsps number
                     - database-overloads number
```


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```
            -  exceeded-max-sequence-number number
            -  lsp-errors number
            -  manual-address-drop-from-area number
            -  max-area-address-mismatches number
            -  own-lsp-purges number
            -  sequence-number-skips number
            -  spf-runs number
            -  system-id-length-mismatches number
            -  total-lsps number
         +  trace-options
            +  trace keyword
      +  level-capability keyword
      -  link-state-database
      +  loopfree-alternate
         +  admin-state keyword
         +  augment-route-table boolean
         +  exclude
            +  prefix-policy reference
         +  multi-homed-prefix
            +  admin-state keyword
            +  preference keyword
         +  remote-lfa
            +  admin-state keyword
            +  max-pq-cost number
            +  node-protect
               +  admin-state keyword
               +  max-pq-nodes number
         +  ti-lfa
            +  admin-state keyword
            +  max-sr-policy-lfa-labels number
            +  max-srv6-lfa-sids number
            +  node-protect
               +  admin-state keyword
      +  max-ecmp-paths number
      +  multi-part-tlv
         +  neighbor boolean
         +  srlg boolean
         -  statistics
            -  tlv tlv-type number level-number number
               -  mp-tlv-originated number
               -  mp-tlv-truncated number
      +  net string
      -  oper-area-id string
      -  oper-state keyword
      -  oper-system-id string
      +  overload
         +  advertise-external boolean
         +  advertise-interlevel boolean
         +  immediate
            +  max-metric boolean
            +  set-bit boolean
         -  instance-is-in-overload boolean
         -  last-overload-enter-code keyword
         -  last-overload-entered-time string
         -  last-overload-exit-code keyword
         -  last-overload-exit-time string
         +  on-boot
            +  max-metric boolean
            +  set-bit boolean
            +  timeout number
         -  overload-rem-interval number
      +  poi-tlv boolean
      -  restarting-neighbor-list
         -  neighbor system-id string
```


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```
               -  hostname string
         +  segment-routing
            -  flex-algo flex-algo-id number
               -  advertising-fad boolean
               -  flex-algo-binding number
               -  l1-oper-state keyword
               -  l2-oper-state keyword
               -  level-1
                  -  fad-count number
                  -  other-fads fad-owner string
                     -  calculation-type number
                     -  exclude number
                     -  fad-flags keyword
                     -  include-all number
                     -  include-any number
                     -  level number
                     -  metric-type keyword
                     -  priority number
                     -  supported boolean
                  -  selected-fad
                     -  calculation-type number
                     -  exclude number
                     -  fad-flags keyword
                     -  fad-owner string
                     -  include-all number
                     -  include-any number
                     -  level number
                     -  metric-type keyword
                     -  priority number
                     -  supported boolean
               -  level-2
                  -  fad-count number
                  -  other-fads fad-owner string
                     -  calculation-type number
                     -  exclude number
                     -  fad-flags keyword
                     -  include-all number
                     -  include-any number
                     -  level number
                     -  metric-type keyword
                     -  priority number
                     -  supported boolean
                  -  selected-fad
                     -  calculation-type number
                     -  exclude number
                     -  fad-flags keyword
                     -  fad-owner string
                     -  include-all number
                     -  include-any number
                     -  level number
                     -  metric-type keyword
                     -  priority number
                     -  supported boolean
               -  loopfree-alternate boolean
               -  micro-loop-avoidance boolean
               -  participating boolean
               -  route-table
                  -  ipv4-unicast prefix (ipv4-prefix | ipv6-prefix)
                     -  backup-nexthop ip-address (ipv4-address | ipv6-address | ipv6-
address) interface string
                     -  hostname string
                     -  level keyword
                     -  metric number
                     -  metric-type keyword
```


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```
                     -  nexthop ip-address (ipv4-address | ipv6-address | ipv6-
address) interface string
                     -  route-tag number
                     -  sid number
                     -  sid-flags keyword
                     -  system-id string
                     -  topology-id keyword
                     -  version number
                  -  ipv6-unicast prefix string
                     -  backup-nexthop ip-address (ipv4-address | ipv6-address | ipv6-
address) interface string
                     -  hostname string
                     -  level keyword
                     -  metric number
                     -  metric-type keyword
                     -  nexthop ip-address (ipv4-address | ipv6-address | ipv6-
address) interface string
                     -  route-tag number
                     -  sid number
                     -  sid-flags keyword
                     -  system-id string
                     -  topology-id keyword
                     -  version number
               -  topology
                  -  path topology keyword isis-level keyword system-id string
                     -  interface string
                     -  lfa-interface string
                     -  lfa-metric number
                     -  lfa-nexthop (isis-system-id | string)
                     -  metric number
                     -  nexthop (isis-system-id | string)
            +  flexible-algorithm-binding flex-algo-id reference
               +  advertised boolean
               +  isis-level keyword
               +  loopfree-alternate boolean
               +  micro-loop-avoidance boolean
               +  participate boolean
            +  micro-loop-avoidance
               +  admin-state keyword
               +  fib-delay number
               -  remaining-fib-delay
                  -  mt0 number
                  -  mt2 number
            +  mpls
               +  adjacency-sid-hold-time (keyword | number)
               +  dynamic-adjacency-sids
                  +  all-interfaces boolean
               +  egress-statistics
                  +  adj-sid boolean
                  +  node-sid boolean
               +  ingress-statistics
                  +  adj-sid boolean
                  +  node-sid boolean
               +  maximum-sid-depth
                  +  override-bmi number
               -  sid-database
                  -  prefix-sid prefix (ipv4-prefix | ipv6-prefix) sid-label-
value number multi-topology-id number algorithm number
                     -  active boolean
                     -  prefix-conflict boolean
                     -  sid-conflict boolean
                     -  sid-out-of-range boolean
                     -  source-router system-id string level-number number
                        -  flags
```


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```
                        -  explicit-null boolean
                        -  local boolean
                        -  node-sid boolean
                        -  penultimate-hop-popping boolean
                        -  re-advertised boolean
                     -  local-system boolean
            -  sid-statistics
               -  label label number
                  -  algorithm number
                  -  egress
                     -  octets number
                     -  oper-state keyword
                     -  packets number
                     -  resource-allocation keyword
                  -  ingress
                     -  octets number
                     -  oper-state keyword
                     -  packets number
                     -  resource-allocation keyword
                  -  interface string
                  -  prefix string
                  -  type keyword
               +  static-label-block reference
               -  static-label-block-status keyword
         +  srv6
            +  adj-sid-hold (keyword | number)
            +  admin-state keyword
            +  locator locator-name reference
               +  level level-number number
                  +  metric number
               +  level-capability keyword
               +  multi-topology
                  +  multi-topology-0 boolean
                  +  multi-topology-2 boolean
               +  tag number
      -  statistics
         -  last-partial-spf string
         -  last-spf string
         -  partial-spf-runs number
         -  pdu pdu-name keyword
            -  dropped number
            -  processed number
            -  received number
            -  sent number
         -  spf-runs number
      +  te-database-install
         +  bgp-ls
            +  igp-identifier number
      +  timers
         +  lsp-generation
            +  initial-wait number
            +  max-wait number
            +  second-wait number
         +  lsp-lifetime number
         +  lsp-refresh
            +  half-lifetime boolean
            +  interval number
         +  spf
            +  initial-wait number
            +  max-wait number
            +  second-wait number
      -  topology
         -  path topology keyword isis-level keyword system-id string
            -  interface string
```


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```
               -  lfa-interface string
               -  lfa-metric number
               -  lfa-nexthop (isis-system-id | string)
               -  metric number
               -  nexthop (isis-system-id | string)
         +  trace-options
            +  trace keyword
         +  traffic-engineering
            +  advertisement boolean
            +  ipv4-te-router-id string
            +  ipv6-te-router-id string
            +  legacy-link-attribute-advertisement boolean
         +  transport
            +  lsp-mtu-size number
         +  weighted-ecmp
            +  admin-state keyword
            +  max-ecmp-hash-buckets-per-next-hop-group number
      +  non-stop-forwarding
         +  admin-state keyword
   +  layer-3-evpn-neighbor-synchronization
      +  admin-state keyword
      +  evi-route-target (string | string | string | string | string | string | string |
 string | string | string | string)
      +  internal-tags
         +  set-tag-set reference
      +  retention-timer number
      +  route-distinguisher (route-distinguisher-type-0 | route-distinguisher-type-1 | route-
distinguisher-type-2 | route-distinguisher-type-2b)
   +  ldp
      +  admin-state keyword
      +  discovery
         +  interfaces
            +  hello-holdtime number
            +  hello-interval number
            +  interface name string
               +  hello-holdtime number
               +  hello-interval number
               +  ipv4
                  +  admin-state keyword
                  +  enable-bfd boolean
                  -  hello-adjacencies
                     -  adjacency lsr-id reference label-space-id reference
                        -  hello-holdtime
                           -  negotiated number
                           -  neighbor-proposed number
                           -  remaining number
                        -  hello-received number
                        -  hello-sent number
                        -  local-address string
                        -  remote-address string
                  -  intf-oper-down-reason keyword
                  -  last-oper-state-change string
                  -  oper-state keyword
                  +  override-lsr-id
                     +  local-subinterface keyword
                  -  statistics
                     -  hello-message-errors
                        -  bad-message-length number
                        -  bad-pdu-length number
                        -  bad-protocol-version number
                        -  malformed-tlv-value number
                     -  hello-received number
                     -  hello-sent number
                  +  trace-options
```


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```
                  +  trace keyword
            +  ipv6
               +  admin-state keyword
               +  enable-bfd boolean
               -  hello-adjacencies
                  -  adjacency lsr-id reference label-space-id reference
                     -  hello-holdtime
                        -  negotiated number
                        -  neighbor-proposed number
                        -  remaining number
                     -  hello-received number
                     -  hello-sent number
                     -  local-address string
                     -  remote-address string
               -  intf-oper-down-reason keyword
               -  last-oper-state-change string
               -  oper-state keyword
               +  override-lsr-id
                  +  local-subinterface keyword
               -  statistics
                  -  hello-message-errors
                     -  bad-message-length number
                     -  bad-pdu-length number
                     -  bad-protocol-version number
                     -  malformed-tlv-value number
                  -  hello-received number
                  -  hello-sent number
               +  trace-options
                  +  trace keyword
         +  trace-options
            +  trace keyword
      +  targeted
         +  hello-holdtime number
         +  hello-interval number
         +  ipv4
            +  auto-rx
               +  admin-state keyword
               +  advertise-fec boolean
            +  auto-tx
               +  admin-state keyword
               +  advertise-fec boolean
            +  target remote-address string
               +  admin-state keyword
               +  advertise-fec boolean
               +  enable-bfd boolean
               -  hello-adjacencies
                  -  adjacency lsr-id reference label-space-id reference
                     -  hello-holdtime
                        -  negotiated number
                        -  neighbor-proposed number
                        -  remaining number
                     -  hello-received number
                     -  hello-sent number
                     -  local-address string
                     -  remote-address string
               +  hello-holdtime number
               +  hello-interval number
               -  last-oper-state-change string
               -  oper-state keyword
               -  oper-type keyword
               +  override-lsr-id
                  +  subinterface-ipv4 string
               -  statistics
                  -  hello-message-errors
```


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```
                        -  bad-message-length number
                        -  bad-pdu-length number
                        -  bad-protocol-version number
                        -  malformed-tlv-value number
                  -  target-oper-down-reason keyword
      +  dynamic-label-block reference
      -  dynamic-label-block-status keyword
      +  export-prefix-policy reference
      +  fec-resolution
         +  longest-prefix boolean
      +  graceful-restart
         +  helper-enable boolean
         +  max-reconnect-time number
         +  max-recovery-time number
      +  import-prefix-policy reference
      +  ipv4
         -  bindings
            -  advertised-address
               -  peer lsr-id reference label-space-id reference
                  -  ip-address string
            -  advertised-prefix-fec
               -  prefix-fec fec string lsr-id reference label-space-id reference
                  -  egress-lsr-fec boolean
                  -  label (number | keyword)
                  -  label-status keyword
                  -  label-type keyword
            -  received-address
               -  peer lsr-id reference label-space-id reference
                  -  ip-address string
            -  received-prefix-fec
               -  prefix-fec fec string lsr-id reference label-space-id reference
                  -  entropy-label-transmit boolean
                  -  ingress-lsr-fec boolean
                  -  label (number | keyword)
                  -  next-hop index number
                     -  interface string
                     -  next-hop (ipv4-address | ipv6-address)
                     -  next-hop-type keyword
                     -  outer-label (number | keyword)
                  -  not-used-reason keyword
                  -  used-in-forwarding boolean
            -  service-fec128 virtual-circuit-type keyword virtual-circuit-
identifier number peer-lsr-id (ipv4-address | ipv6-address)
               -  advertised
                  -  control-word boolean
                  -  flow-aware-transport-label-receive-capability boolean
                  -  flow-aware-transport-label-transmit-capability boolean
                  -  l2-mtu number
                  -  label (number | keyword)
                  -  label-status keyword
                  -  pw-status boolean
                  -  signaling-status keyword
                  -  withdraw-reason keyword
               -  binding-oper-down-reason keyword
               -  binding-oper-state keyword
               -  received
                  -  control-word boolean
                  -  flow-aware-transport-label-receive-capability boolean
                  -  flow-aware-transport-label-transmit-capability boolean
                  -  l2-mtu number
                  -  label (number | keyword)
                  -  label-status keyword
                  -  pw-status boolean
                  -  signaling-status keyword
```


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```
         -  last-oper-state-change string
         -  lsr-id string
         -  oper-down-reason keyword
         -  oper-state keyword
         -  oper-up-to-down-transitions number
      +  ipv6
         -  bindings
            -  advertised-address
               -  peer lsr-id reference label-space-id reference
                  -  ip-address string
            -  advertised-prefix-fec
               -  prefix-fec fec string lsr-id reference label-space-id reference
                  -  egress-lsr-fec boolean
                  -  label (number | keyword)
                  -  label-status keyword
                  -  label-type keyword
            -  received-address
               -  peer lsr-id reference label-space-id reference
                  -  ip-address string
            -  received-prefix-fec
               -  prefix-fec fec string lsr-id reference label-space-id reference
                  -  entropy-label-transmit boolean
                  -  ingress-lsr-fec boolean
                  -  label (number | keyword)
                  -  next-hop index number
                     -  interface string
                     -  next-hop (ipv4-address | ipv6-address)
                     -  next-hop-type keyword
                     -  outer-label (number | keyword)
                  -  not-used-reason keyword
                  -  used-in-forwarding boolean
            -  service-fec128 virtual-circuit-type keyword virtual-circuit-
identifier number peer-lsr-id (ipv4-address | ipv6-address)
               -  advertised
                  -  control-word boolean
                  -  flow-aware-transport-label-receive-capability boolean
                  -  flow-aware-transport-label-transmit-capability boolean
                  -  l2-mtu number
                  -  label (number | keyword)
                  -  label-status keyword
                  -  pw-status boolean
                  -  signaling-status keyword
                  -  withdraw-reason keyword
               -  binding-oper-down-reason keyword
               -  binding-oper-state keyword
               -  received
                  -  control-word boolean
                  -  flow-aware-transport-label-receive-capability boolean
                  -  flow-aware-transport-label-transmit-capability boolean
                  -  l2-mtu number
                  -  label (number | keyword)
                  -  label-status keyword
                  -  pw-status boolean
                  -  signaling-status keyword
         -  last-oper-state-change string
         -  lsr-id string
         -  oper-down-reason keyword
         -  oper-state keyword
         -  oper-up-to-down-transitions number
      +  label-withdrawal-delay number
      +  loopfree-alternate
         +  admin-state keyword
      +  multipath
         +  max-paths number
```


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```
      +  null-label keyword
      +  peers
         +  peer lsr-id (ipv4-address-unicast | ipv6-address-unicast-without-local) label-
space-id number
            -  adjacency-type keyword
            +  adv-local-lsr-id boolean
            -  end-of-lib
               -  ipv4-prefix-fecs
                  -  received boolean
                  -  sent boolean
               -  ipv6-prefix-fecs
                  -  received boolean
                  -  sent boolean
            +  export-prefix-policy reference
            +  fec-limit number
            -  fec-limit-exceeded boolean
            +  fec-type-capability
            -  graceful-restart
               -  peer-reconnect-time number
               -  peer-recovery-time number
               -  peer-restarting boolean
            +  import-prefix-policy reference
            -  label-advertisement-mode
               -  negotiated keyword
            -  last-oper-state-change string
            -  overload
               -  local-router-is-overloaded boolean
               -  peer-is-overloaded boolean
            -  received-capabilities
               -  dual-stack-capability boolean
               -  dynamic-capability boolean
               -  entropy-label-capability boolean
               -  graceful-restart-capability boolean
               -  make-before-break-capability boolean
               -  multipoint-to-multipoint-capability boolean
               -  nokia-vendor-overload-capability boolean
               -  point-to-multipoint-capability boolean
               -  state-advertisement-control
                  -  ipv4-prefix-disable boolean
                  -  ipv6-prefix-disable boolean
                  -  p2p-pseudowire-fec-128-disable boolean
                  -  p2p-pseudowire-fec-129-disable boolean
               -  unrecognized-notification-capability boolean
            -  session-holdtime
               -  negotiated number
               -  peer-proposed number
               -  remaining number
            -  session-state keyword
            -  statistics
               -  address-statistics
                  -  ipv4
                     -  advertised-addresses number
                     -  received-addresses number
                  -  ipv6
                     -  advertised-addresses number
                     -  received-addresses number
               -  fec-statistics
                  -  ipv4-prefix
                     -  advertised-fecs number
                     -  received-fecs number
                  -  ipv6-prefix
                     -  advertised-fecs number
                     -  received-fecs number
               -  received-messages
```


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```
                - address number
                - address-withdraw number
                - capability number
                - initialization number
                - keepalive number
                - label-abort-request number
                - label-mapping number
                - label-release number
                - label-request number
                - label-withdraw number
                - notification number
                - total-messages number
             - sent-messages
                - address number
                - address-withdraw number
                - capability number
                - initialization number
                - keepalive number
                - label-abort-request number
                - label-mapping number
                - label-release number
                - label-request number
                - label-withdraw number
                - notification number
                - total-messages number
          + tcp-transport
             - local-address (ipv4-address | ipv6-address)
             - local-port number
             - remote-address (ipv4-address | ipv6-address)
             - remote-port number
          + trace-options
             + trace keyword
       + session-keepalive-holdtime number
       + session-keepalive-interval number
       + trace-options
          + trace keyword
    + static-fec fec-prefix (ipv4-prefix-unicast | ipv6-prefix-unicast)
       + swap boolean
    - statistics
       - fec-statistics
          - ipv4-prefix
             - advertised-fecs number
             - received-fecs number
          - ipv6-prefix
             - advertised-fecs number
             - received-fecs number
       - ipv4
          - total-discovery-interfaces number
          - total-discovery-targets number
          - total-interface-hello-adjacencies number
          - total-peers number
          - total-targeted-hello-adjacencies number
       - ipv6
          - total-discovery-interfaces number
          - total-discovery-targets number
          - total-interface-hello-adjacencies number
          - total-peers number
          - total-targeted-hello-adjacencies number
       - protocol-errors
          - bad-ldp-identifier number
          - bad-message-length number
          - bad-pdu-length number
          - bad-protocol-version number
          - bad-tlv-length number
```


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```
            -  malformed-tlv-value number
            -  missing-message-parameters number
            -  session-rejected-bad-keepalive-time number
            -  session-rejected-no-hello number
            -  session-rejected-parameters-adv-mode number
            -  session-rejected-parameters-label-range number
            -  session-rejected-parameters-max-pdu-length number
            -  unknown-message-type number
            -  unknown-tlv number
            -  unsupported-address-family number
         -  sessions-terminated-holdtime-expiry number
      +  tunnel-down-damp-time number
   +  linux
      +  export-neighbors boolean
      +  export-routes boolean
      +  import-routes boolean
   +  mld
      +  admin-state keyword
      -  group-count number
      +  interface interface-name string
         +  admin-state keyword
         -  group-count number
         +  import-policy reference
         +  maximum-number-group-sources number
         +  maximum-number-groups number
         +  maximum-number-sources number
         -  membership-groups
            -  group group string
               -  expiry-time number
               -  filter-mode keyword
               -  group-type keyword
               -  last-reporter (ipv4-address | ipv6-address)
               -  mld-compatibility-mode keyword
               -  source source string
                  -  expiry-time number
                  -  forwarding-state keyword
                  -  source-type keyword
                  -  up-time string
               -  up-time string
               -  v1-host-timer number
         -  oper-state keyword
         -  oper-version number
         -  querier
            -  address string
            -  expiry-time number
            -  up-time string
         +  query-interval number
         +  query-last-member-interval number
         +  query-response-interval number
         +  router-alert-check boolean
         +  ssm
            +  mappings
               +  group-range start string end string
                  +  source source string
         +  static-membership-groups
            +  group-range start string end string
               +  source source string
               +  starg
         -  statistics
            -  error
               -  bad-encoding number
               -  bad-length number
               -  import-policy-drops number
               -  local-scope number
```


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```
              -  missing-router-alert number
              -  non-local number
              -  out-of-memory-drops number
              -  reached-maximum-number-group-sources number
              -  reached-maximum-number-groups number
              -  reached-maximum-number-sources number
              -  reserved-scope number
              -  unknown-type number
              -  wrong-version number
           -  multicast-states
              -  source-group-entries number
              -  star-group-entries number
           -  received
              -  drops number
              -  general-queries number
              -  group-queries number
              -  group-source-queries number
              -  leaves number
              -  v1-reports number
              -  v2-reports number
           -  transmitted
              -  errors number
              -  general-queries number
              -  group-queries number
              -  group-source-queries number
        +  version number
     -  membership-groups
        -  group group string
           -  source source string
              -  blocked-interface interface-name string
              -  forwarding-interface interface-name string
     -  oper-state keyword
     +  query-interval number
     +  query-last-member-interval number
     +  query-response-interval number
     +  robust-count number
     +  ssm
        +  mappings
           +  group-range start string end string
              +  source source string
     -  statistics
     +  trace-options
        +  trace
           +  interface
              +  all
              +  name reference
           +  packet
              +  interface
                 +  all
                 +  name reference
              +  modifier keyword
              +  type keyword
     -  version
  +  mld-snooping
     +  admin-state keyword
     +  interface interface-name string
        +  fast-leave boolean
        +  import-policy reference
        -  is-mrouter-port boolean
        +  maximum-number-group-sources number
        +  maximum-number-groups number
        +  maximum-number-sources number
        -  membership-group-count number
        -  membership-groups
```


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```
            -  group group string
               -  expiry-time number
               -  filter-mode keyword
               -  group-type keyword
               -  mld-compatibility-mode keyword
               -  source source string
                  -  expiry-time number
                  -  forwarding-state keyword
                  -  source-type keyword
                  -  up-time string
               -  up-time string
               -  v1-host-timer number
         +  mrouter-port boolean
         +  query-interval number
         +  query-last-member-interval number
         +  query-response-interval number
         +  robust-count number
         +  router-alert-check boolean
         +  send-queries boolean
         +  static-membership-groups
            +  group group string
               +  source source string
               +  starg
         -  statistics
            -  error
               -  bad-encoding number
               -  bad-length number
               -  bad-mld-checksum number
               -  discarded-bgp-join-sync number
               -  discarded-bgp-leave-sync number
               -  import-policy-drops number
               -  local-scope number
               -  missing-router-alert number
               -  out-of-memory-discarded-packets number
               -  reached-maximum-number-group-sources number
               -  reached-maximum-number-groups number
               -  reached-maximum-number-sources number
               -  send-query-configured-discarded-packets number
               -  unknown-type number
               -  wrong-version number
               -  zero-source-ip-address number
            -  forwarded
               -  error-packets number
               -  general-queries number
               -  group-queries number
               -  group-source-queries number
               -  leave-messages number
               -  unknown-type number
               -  v1-reports number
               -  v2-reports number
            -  multicast-states
               -  source-group-entries number
               -  star-group-entries number
            -  received
               -  bgp-join-sync number
               -  bgp-leave-sync number
               -  discarded-packets number
               -  general-queries number
               -  group-queries number
               -  group-source-queries number
               -  leave-messages number
               -  v1-reports number
               -  v2-reports number
            -  transmitted
```


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```
            -  bgp-join-sync number
            -  bgp-leave-sync number
            -  error-packets number
            -  general-queries number
            -  group-queries number
            -  group-source-queries number
            -  leave-messages number
            -  v1-reports number
            -  v2-reports number
      +  version number
   -  membership-groups
      -  group group string
         -  source source string
   -  multicast-routers address string
      -  expiry-time number
      -  interface string
      -  mld-v2-states
         -  general-query-interval number
         -  general-response-interval number
         -  robust-count number
      -  up-time string
      -  version number
   -  oper-state keyword
   -  proxy-evpn-membership-group-count number
   -  proxy-evpn-membership-groups
      -  group group string
         -  filter-mode keyword
         -  source source string
            -  up-time string
         -  up-time string
         -  v1-support boolean
         -  v2-support boolean
   -  proxy-membership-group-count number
   -  proxy-membership-groups
      -  group group string
         -  filter-mode keyword
         -  source source string
            -  up-time string
         -  up-time string
   -  querier
      -  address string
      -  expiry-time number
      -  interface string
      -  mld-v2-states
         -  general-query-interval number
         -  general-response-interval number
         -  robust-count number
      -  up-time string
      -  version number
   +  query-interval number
   +  query-source-address string
   +  report-source-address string
   +  robust-count number
   -  statistics
   +  trace-options
      +  trace
         +  packet
            +  interface interface-name string
            +  modifier keyword
            +  source-mac source-mac string
   -  transmitted-bgp-smet-routes number
   -  vxlan-destination vtep (ipv4-address | ipv6-address) vni number
      -  index number
      -  is-evpn-proxy boolean
```


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```
        -  is-mrouter-port boolean
        -  is-sbd boolean
        -  membership-group-count number
        -  membership-groups
           -  group group string
              -  expiry-time number
              -  filter-mode keyword
              -  group-type keyword
              -  mld-compatibility-mode keyword
              -  source source string
                 -  expiry-time number
                 -  forwarding-state keyword
                 -  source-type keyword
                 -  up-time string
              -  up-time string
              -  v1-host-timer number
        -  oper-down-reason keyword
        -  oper-state keyword
        -  statistics
           -  discarded-smet number
           -  received-smet number
  +  msdp
     +  active-source-limit number
     -  active-source-limit-exceeded number
     +  admin-state keyword
     +  data-encapsulation boolean
     +  group name string
        +  active-source-limit number
        -  active-source-limit-exceeded number
        +  admin-state keyword
        +  local-address string
        +  mode keyword
        +  peer ip-address string
           -  active-source-accepted number
           +  active-source-limit number
           -  active-source-received number
           +  admin-state keyword
           -  connection-retry number
           +  default-peer boolean
           -  last-active-source-limit string
           -  last-peer-state-change string
           +  local-address string
           -  operational-local-address string
           -  peer-state keyword
           +  receive-message-rate
              +  rate number
              +  threshold number
              +  time number
           -  state-timer number
           -  statistics
              -  err-msg-recvd number
              -  keepalive-msg-recvd number
              -  keepalive-msg-sent number
              -  remote-closes number
              -  reserved-msg-recvd number
              -  rpf-failures number
              -  sa-lim-excd number
              -  sa-msgs-recvd number
              -  sa-msgs-sent number
              -  sa-req-msg-recvd number
              -  sa-res-msg-recvd number
              -  unknown-msg-recvd number
           -  timeout number
        +  receive-message-rate
```


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```
            +  rate number
            +  threshold number
            +  time number
      -  last-time-up string
      +  local-address string
      +  peer ip-address string
         -  active-source-accepted number
         +  active-source-limit number
         -  active-source-received number
         +  admin-state keyword
         -  connection-retry number
         +  default-peer boolean
         -  last-active-source-limit string
         -  last-peer-state-change string
         +  local-address string
         -  operational-local-address string
         -  peer-state keyword
         +  receive-message-rate
            +  rate number
            +  threshold number
            +  time number
         -  state-timer number
         -  statistics
            -  err-msg-recvd number
            -  keepalive-msg-recvd number
            -  keepalive-msg-sent number
            -  remote-closes number
            -  reserved-msg-recvd number
            -  rpf-failures number
            -  sa-lim-excd number
            -  sa-msgs-recvd number
            -  sa-msgs-sent number
            -  sa-req-msg-recvd number
            -  sa-res-msg-recvd number
            -  unknown-msg-recvd number
         -  timeout number
      -  peer-count number
      -  peers-established number
      +  receive-message-rate
         +  rate number
         +  threshold number
         +  time number
      +  source ip-prefix string
         -  active-messages-exceed-max number
         +  active-source-limit number
         -  discovery-method keyword
         -  last-exceeded-event-time number
      -  source-active
         -  group group string source string origin-rendez-vous-point string
            -  expiry-time string
            -  peer-learnt-from string
            -  reverse-path-forwarding-peer string
            -  up-time string
      +  source-active-cache-lifetime number
      -  source-active-messages-count number
      -  source-active-rejected
         -  group-name group-name string group string source string origin-rendez-vous-
point string peer string
            -  failure-reason keyword
      -  statistics
      +  trace-options
         +  trace
            +  events
               +  all-event-types
```


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```
               +  event-types
                  +  flood
                  +  node
                  +  peer
                  +  peer-group
                  +  pim
                     +  group-address string
                  +  rp
                     +  rp-address string
                  +  sa-reject
                  +  source-active
                     +  group-address string
                     +  rp-address string
                     +  source-address string
            +  packet
               +  all-packet-types
               +  packet-types
                  +  peer
                     +  peer-address string
                  +  rx
                  +  tx
   +  ospf
      +  instance name string
         +  address-family identityref
         +  admin-state keyword
         +  advertise-router-capability keyword
         +  area area-id
            -  active-interfaces number
            +  advertise-router-capability boolean
            -  area-bdr-rtr-count
            +  area-range ip-prefix-mask (ipv4-prefix-unicast | ipv6-prefix-unicast-without-
local)
               +  advertise boolean
            -  as-bdr-rtr-count
            +  blackhole-aggregate boolean
            +  export-policy reference
            -  full-spf-runs
            +  interface interface-name string
               +  admin-state keyword
               +  advertise-router-capability boolean
               +  advertise-subnet boolean
               +  authentication
                  +  keychain reference
               -  bad-packets
                  -  auth-failures
                  -  bad-area
                  -  bad-auth-type
                  -  bad-checksum
                  -  bad-dead-interval
                  -  bad-dest-address
                  -  bad-hello-interval
                  -  bad-length
                  -  bad-neighbors
                  -  bad-network
                  -  bad-options
                  -  bad-packet-type
                  -  bad-version
                  -  bad-virtual-link
               -  bdr-id
               +  dead-interval number
               -  dr-id
               -  events
               +  failure-detection
                  +  enable-bfd boolean
```


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```
+  hello-interval number
+  interface-type keyword
-  last-enabled-time string
-  last-event-time string
+  ldp-synchronization
   +  disable
   -  duration number
   +  end-of-lib boolean
   +  hold-down-timer number
   -  sync-state keyword
-  link-lsa-cksum-sum string
-  link-lsa-count
-  local-ip-address (ipv4-address | ipv6-address)
+  loopfree-alternate-exclude boolean
+  lsa-filter-out keyword
-  lsa-totals
   -  e-link-lsa
   -  link-lsa
   -  link-opaque-lsa
   -  router-info-lsa
-  lsdb
   -  lsa-types
      -  lsa-type type identityref
         -  lsas
            -  lsa advertising-router string link-state-id string
               -  advertisement string
               -  age number
               -  checksum string
               -  opaque-lsa
                  -  extended-link
                     -  link-data number
                     -  link-id string
                     -  link-type identityref
                     -  tlvs
                        -  tlv
                           -  type identityref
                           -  unknown-tlv
                              -  length number
                              -  type number
                              -  value binary
                     -  type identityref
                  -  extended-prefix
                     -  address-family keyword
                     -  attached boolean
                     -  node boolean
                     -  prefix string
                     -  prefix-length number
                     -  route-type keyword
                     -  tlvs
                        -  tlv
                           -  extended-prefix-range
                              -  address-family keyword
                              -  inter-area boolean
                              -  prefix string
                              -  prefix-length number
                              -  range-size number
                           -  type identityref
                           -  unknown-tlv
                              -  length number
                              -  type number
                              -  value binary
                  -  grace-lsa
                     -  tlvs
                        -  tlv
```


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```
                                 - ip-interface-address string
                                 - period number
                                 - reason keyword
                                 - type identityref
                                 - unknown-tlv
                                    - length number
                                    - type number
                                    - value binary
                           - router-information
                              - tlvs
                                 - tlv
                                    - informational-capabilities
                                       - experimental-te boolean
                                       - graceful-restart-capable boolean
                                       - graceful-restart-helper boolean
                                       - point-to-point-over-lan boolean
                                       - stub-router boolean
                                    - node-administrative-tags
                                       - administrative-tags number
                                    - type (identityref | keyword)
                                    - unknown-tlv
                                       - length number
                                       - type number
                                       - value binary
                              - scope keyword
                              - type identityref
                              - unknown-tlv
                                 - length number
                                 - type number
                                 - value binary
                        - options string
                        - ospfv3-link-lsa
                           - link-local-interface-address string
                           - lsa-options
                              - lsa-options identityref
                           - num-of-prefixes number
                           - prefixes prefix (ipv4-prefix | ipv6-prefix)
                              - prefix-options
                                 - prefix-options identityref
                           - rtr-priority number
                        - sequence-number string
+                  metric number
+                  mtu number
-                  neighbor router-id
                     - address (ipv4-address-with-zone | ipv6-address-with-zone)
                     - adjacency-state identityref
                     - backup-designated-router
                     - dead-time number
                     - designated-router
                     - last-established-time string
                     - last-event-time string
                     - last-restart-time string
                     - optional-capabilities
                     - priority number
                     - restart-helper-age number
                     - restart-helper-exit-rc keyword
                     - restart-helper-status keyword
                     - restart-reason (number | keyword)
                     - retransmission-queue-length number
                     - state-changes number
                     - statistics
                        - bad-mtu
                        - bad-nbr-states
                        - bad-packets
```


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```
                  -  bad-seq-nums
                  -  duplicates
                  -  events
                  -  lsa-install-failed
                  -  lsa-not-in-lsdbs
                  -  num-restarts
                  -  option-mismatches
               -  neighbor-count
               -  oper-state keyword
               -  packets
                  -  discarded
                  -  retransmits
                  -  rx-db-description
                  -  rx-hello
                  -  rx-ls-ack
                  -  rx-ls-request
                  -  rx-ls-update
                  -  rx-total
                  -  tx-db-description
                  -  tx-hello
                  -  tx-ls-ack
                  -  tx-ls-request
                  -  tx-ls-update
                  -  tx-total
               +  passive boolean
               +  priority number
               +  retransmit-interval number
               +  trace-options
                  +  trace
                     +  adjacencies
                     +  interfaces
                     +  packet
                        +  detail
                        +  modifier keyword
                        +  type keyword
               +  transit-delay number
            -  last-spf-run-time string
            +  loopfree-alternate-exclude boolean
            -  lsa-filter-totals
               -  export-filtered
               -  import-filtered
            -  lsa-totals
               -  area-opaque-lsa
               -  asbr-summary-lsa
               -  e-inter-area-prefix-lsa
               -  e-inter-area-router-lsa
               -  e-intra-area-prefix-lsa
               -  e-network-lsa
               -  e-nssa-lsa
               -  e-router-lsa
               -  inter-area-prefix-lsa
               -  inter-area-router-lsa
               -  intra-area-prefix-lsa
               -  network-lsa
               -  network-summary-lsa
               -  nssa-lsa
               -  router-info-lsa
               -  router-lsa
               -  total
               -  total-lsa-cksum-sum string
               -  unknown-lsa
            -  lsdb
               -  identifier
               -  lsa-types
```


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```
                - lsa-type type identityref
                  - lsas
                    - lsa advertising-router string link-state-id string
                      - advertisement string
                      - age number
                      - checksum string
                      - network-lsa
                        - attached-router
                        - network-mask number
                      - nssa-external-lsa
                        - external-route-tag number
                        - forwarding-address string
                        - mask number
                        - metric number
                        - metric-type keyword
                        - propagate boolean
                        - types-of-service
                          - type-of-service tos number
                            - external-route-tag number
                            - forwarding-address string
                            - metric number
                      - opaque-lsa
                        - extended-link
                          - link-data number
                          - link-id string
                          - link-type identityref
                          - tlvs
                            - tlv
                              - type identityref
                              - unknown-tlv
                                - length number
                                - type number
                                - value binary
                          - type identityref
                        - extended-prefix
                          - address-family keyword
                          - attached boolean
                          - node boolean
                          - prefix string
                          - prefix-length number
                          - route-type keyword
                          - tlvs
                            - tlv
                              - extended-prefix-range
                                - address-family keyword
                                - inter-area boolean
                                - prefix string
                                - prefix-length number
                                - range-size number
                              - type identityref
                              - unknown-tlv
                                - length number
                                - type number
                                - value binary
                        - grace-lsa
                          - tlvs
                            - tlv
                              - ip-interface-address string
                              - period number
                              - reason keyword
                              - type identityref
                              - unknown-tlv
                                - length number
                                - type number
```


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```
                        - value binary
                  - router-information
                     - tlvs
                        - tlv
                           - informational-capabilities
                              - experimental-te boolean
                              - graceful-restart-capable boolean
                              - graceful-restart-helper boolean
                              - point-to-point-over-lan boolean
                              - stub-router boolean
                           - node-administrative-tags
                              - administrative-tags number
                           - type (identityref | keyword)
                           - unknown-tlv
                              - length number
                              - type number
                              - value binary
                     - scope keyword
                     - type identityref
                     - unknown-tlv
                        - length number
                        - type number
                        - value binary
               - options string
               - ospfv3-external-lsa
                  - external-route-tag number
                  - flags bits
                  - forwarding-address (ipv4-address | ipv6-address)
                  - metric number
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - prefix-options
                     - prefix-options identityref
                  - referenced-link-state-id number
                  - referenced-ls-type identityref
                  - unknown-referenced-ls-type number
               - ospfv3-inter-area-prefix-lsa
                  - metric number
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - prefix-options
                     - prefix-options identityref
               - ospfv3-inter-area-router-lsa
                  - destination-router-id
                  - lsa-options
                     - lsa-options identityref
                  - metric number
               - ospfv3-intra-area-prefix-lsa
                  - num-of-prefixes number
                  - prefixes prefix (ipv4-prefix | ipv6-prefix)
                     - metric number
                     - prefix-options
                        - prefix-options identityref
                  - referenced-adv-router
                  - referenced-link-state-id number
                  - referenced-ls-type identityref
                  - unknown-referenced-ls-type number
               - ospfv3-network-lsa
                  - attached-routers
                     - attached-router
                  - lsa-options
                     - lsa-options identityref
               - ospfv3-router-lsa
                  - flags number
                  - link interface-id number
                     - metric number
```


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```
                                  -  neighbor-interface-id number
                                  -  neighbor-router-id
                                  -  type identityref
                               -  lsa-options
                                  -  lsa-options identityref
                            -  router-lsa
                               -  flags number
                               -  links link-id string
                                  -  link-data number
                                  -  metric number
                                  -  number-tos-metrics number
                                  -  type identityref
                                  -  types-of-service
                                     -  type-of-service tos number
                                        -  metric number
                               -  number-links number
                            -  sequence-number string
                            -  summary-lsa
                               -  metric number
                               -  network-mask number
                               -  types-of-service
                                  -  type-of-service tos number
                                     -  metric number
               +  nssa
                  +  area-range ip-prefix-mask (ipv4-prefix-unicast | ipv6-prefix-unicast-without-
local)
                     +  advertise boolean
                  +  originate-default-route
                     +  adjacency-check boolean
                     +  type-nssa boolean
                  +  redistribute-external boolean
                  +  summaries boolean
               +  stub
                  +  default-metric number
                  +  summaries boolean
            -  area-border-router boolean
            -  as-border-router boolean
            +  asbr
               +  trace-path (number | keyword)
            -  backbone-router boolean
            +  export-limit
               +  log-percent number
               +  number number
            +  export-policy reference
            -  extern-lsa-cksum-sum string
            -  extern-lsa-count
            +  external-db-overflow
               +  interval number
               +  limit number
            +  external-preference number
            +  graceful-restart
               +  helper-mode boolean
               +  strict-lsa-checking boolean
            +  ignore-dn-bit boolean
            +  instance-id number
            -  last-disabled-reason string
            -  last-enabled-time string
            -  last-overflow-entered-time string
            -  last-overflow-exit-time string
            -  last-overload-enter-code keyword
            -  last-overload-entered-time string
            -  last-overload-exit-code keyword
            -  last-overload-exit-time string
            +  ldp-synchronization
```


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```
            +  end-of-lib boolean
            +  hold-down-timer number
         +  loopfree-alternate
            +  admin-state keyword
            +  augment-route-table boolean
            +  exclude
               +  prefix-policy reference
            +  remote-lfa
               +  admin-state keyword
               +  max-pq-cost number
               +  node-protect
                  +  admin-state keyword
                  +  max-pq-nodes number
         -  lsa-totals
            -  as-external-lsa
            -  as-opaque-lsa
            -  e-as-external-lsa
            -  router-info-lsa
         -  lsdb
            -  lsa-types
               -  lsa-type type identityref
                  -  lsas
                     -  lsa advertising-router string link-state-id string
                        -  advertisement string
                        -  age number
                        -  as-external-lsa
                           -  external-route-tag number
                           -  forwarding-address string
                           -  mask number
                           -  metric number
                           -  metric-type keyword
                           -  types-of-service
                              -  type-of-service tos number
                                 -  external-route-tag number
                                 -  forwarding-address string
                                 -  metric number
                        -  checksum string
                        -  opaque-lsa
                           -  extended-link
                              -  link-data number
                              -  link-id string
                              -  link-type identityref
                              -  tlvs
                                 -  tlv
                                    -  type identityref
                                    -  unknown-tlv
                                       -  length number
                                       -  type number
                                       -  value binary
                              -  type identityref
                           -  extended-prefix
                              -  address-family keyword
                              -  attached boolean
                              -  node boolean
                              -  prefix string
                              -  prefix-length number
                              -  route-type keyword
                              -  tlvs
                                 -  tlv
                                    -  extended-prefix-range
                                       -  address-family keyword
                                       -  inter-area boolean
                                       -  prefix string
                                       -  prefix-length number
```


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```
                                    -  range-size number
                                 -  type identityref
                                 -  unknown-tlv
                                    -  length number
                                    -  type number
                                    -  value binary
                           -  grace-lsa
                              -  tlvs
                                 -  tlv
                                    -  ip-interface-address string
                                    -  period number
                                    -  reason keyword
                                    -  type identityref
                                    -  unknown-tlv
                                       -  length number
                                       -  type number
                                       -  value binary
                           -  router-information
                              -  tlvs
                                 -  tlv
                                    -  informational-capabilities
                                       -  experimental-te boolean
                                       -  graceful-restart-capable boolean
                                       -  graceful-restart-helper boolean
                                       -  point-to-point-over-lan boolean
                                       -  stub-router boolean
                                    -  node-administrative-tags
                                       -  administrative-tags number
                                    -  type (identityref | keyword)
                                    -  unknown-tlv
                                       -  length number
                                       -  type number
                                       -  value binary
                              -  scope keyword
                              -  type identityref
                              -  unknown-tlv
                                 -  length number
                                 -  type number
                                 -  value binary
                        -  options string
                        -  ospfv3-external-lsa
                           -  external-route-tag number
                           -  flags bits
                           -  forwarding-address (ipv4-address | ipv6-address)
                           -  metric number
                           -  prefix (ipv4-prefix | ipv6-prefix)
                           -  prefix-options
                              -  prefix-options identityref
                           -  referenced-link-state-id number
                           -  referenced-ls-type identityref
                           -  unknown-referenced-ls-type number
                        -  sequence-number string
      +  max-ecmp-paths number
      -  new-lsas-originated
      -  new-lsas-received
      -  opaque-lsa-support boolean
      -  oper-state keyword
      -  overflow boolean
      +  overload
         +  active boolean
         +  overload-include-ext-1 boolean
         +  overload-include-ext-2 boolean
         +  overload-include-stub boolean
         +  overload-on-boot
```


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```
            +  timeout number
         +  rtr-adv-lsa-limit
            +  log-only boolean
            +  max-lsa-count number
            +  overload-timeout number
            +  warning-threshold number
      -  overload-rem-interval number
      -  overload-state keyword
      -  ovld-lsa-limit-rem-interval number
      +  preference number
      +  reference-bandwidth number
      +  router-id
      -  routes-submitted
      -  spf
         -  avg-spf-run-interval number
         -  ext-spf-runs
         -  full-spf-runs
         -  incremental-ext-spf-runs
         -  incremental-inter-spf-runs
         -  last-ext-spf
            -  interval number
            -  run-time string
         -  last-full-spf
            -  extern-spf-time number
            -  inter-spf-time number
            -  intra-spf-time number
            -  rtm-update-time number
            -  run-time string
            -  total-time number
         -  max-spf-run-interval number
         -  min-spf-run-interval number
         -  spf-attempts-failed
      +  suppress-dn-bit boolean
      +  timers
         +  incremental-spf-wait number
         +  lsa-accumulate number
         +  lsa-arrival number
         +  lsa-generate
            +  lsa-initial-wait number
            +  lsa-second-wait number
            +  max-lsa-wait number
         +  redistribute-delay number
         +  spf-wait
            +  spf-initial-wait number
            +  spf-max-wait number
            +  spf-second-wait number
      -  total-exported-routes
      +  trace-options
         +  trace
            +  adjacencies
            +  graceful-restart
            +  interfaces
            +  lsdb
               +  link-state-id string
               +  router-id string
               +  type keyword
            +  misc
            +  packet
               +  detail
               +  modifier keyword
               +  type keyword
            +  routes
               +  dest-address (ipv4-address | ipv6-address)
            +  spf
```


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```
                  +  dest-address (ipv4-address | ipv6-address)
         +  version identityref
   +  pcep
      +  pcc
         +  admin-state keyword
         -  allow-negotiation boolean
         -  capabilities keyword
         -  connect-timer number
         +  dead-timer number
         -  keep-wait-timer number
         +  keepalive number
         -  lsp-update pce-id number
            -  association-detail association-index number
               -  association-id number
               -  association-source (ipv4-address-unicast | ipv6-address-unicast-without-
local)
               -  association-type keyword
               -  disjointness-reference boolean
               -  disjointness-type keyword
               -  diversity-type keyword
            -  delegated boolean
            -  delegated-peer-address (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            -  destination-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            -  extended-tunnel-id (ipv4-address-unicast | ipv6-address-unicast)
            -  lsp-id number
            -  lsp-type keyword
            -  name string
            -  oper-state keyword
            -  path-detail path-type keyword
               -  binding-sid number
               -  binding-sid-remaining number
               -  delay-metric number
               -  error keyword
               -  exclude-any number
               -  explicit-route-objects route-object-index number
                  -  as-number number
                  -  local-interface-id number
                  -  local-interface-name string
                  -  local-prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  remote-interface-id number
                  -  remote-prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  router-id (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  sid-label number
                  -  sid-type keyword
               -  holding-priority number
               -  hop-count number
               -  igp-metric number
               -  include-all number
               -  include-any number
               -  lsp-bandwidth number
               -  record-route-objects route-object-index number
                  -  as-number number
                  -  local-interface-id number
                  -  local-interface-name string
                  -  local-prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  remote-interface-id number
                  -  remote-prefix (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  router-id (ipv4-address-unicast | ipv6-address-unicast-without-local)
                  -  sid-label number
                  -  sid-type keyword
               -  setup-priority number
```


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```
               -  srp-id number
               -  te-metric number
            -  source-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            -  state keyword
            -  tunnel-id number
         +  max-pce-init-lsps number
         -  max-sessions number
         -  max-unknown-requests number
         -  open-wait-timer number
         -  oper-state keyword
         -  path-request request-id number
            -  bidirectional boolean
            -  delay-metric number
            -  destination-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            -  exclude-any number
            -  extended-profiles number
            -  extended-tunnel-id (ipv4-address-unicast | ipv6-address-unicast)
            -  holding-priority number
            -  hop-count number
            -  igp-metric number
            -  include-all number
            -  include-any number
            -  local-protection-desired boolean
            -  loose-path-acceptable boolean
            -  lsp-bandwidth number
            -  lsp-id number
            -  lsp-name string
            -  lsp-type keyword
            -  max-lsr-labels number
            -  message-state keyword
            -  metric-bound keyword
            -  metric-compute keyword
            -  msg-priority number
            -  profiles number
            -  reoptimization boolean
            -  setup-priority number
            -  source-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            -  sync-vector-id number
            -  te-metric number
            -  tunnel-id number
         +  pce-associations
            +  diversity association-name string
               +  association-id number
               +  association-source (ipv4-address-unicast | ipv6-address-unicast-without-
local)
               +  disjointness-reference boolean
               +  disjointness-type keyword
               +  diversity-type keyword
            +  policy association-name string
               +  association-id number
               +  association-source (ipv4-address-unicast | ipv6-address-unicast-without-
local)
         +  peer ip-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            +  admin-state keyword
            -  capabilities keyword
            -  is-overloaded boolean
            +  local-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            +  network-instance reference
            -  oper-dead-timer number
            -  oper-keepalive number
            -  oper-local-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            -  oper-state keyword
            +  preference number
            -  session-established-time string
```


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```
            - speaker-id string
            - statistics
               - num-keepalive-rcvd number
               - num-keepalive-sent number
               - num-pcerr-rcvd number
               - num-pcerr-sent number
               - num-pcinit-rcvd number
               - num-pcinit-sent number
               - num-pcntf-rcvd number
               - num-pcntf-sent number
               - num-pcrep-rcvd number
               - num-pcrep-sent number
               - num-pcreq-rcvd number
               - num-pcreq-sent number
               - num-pcrpt-rcvd number
               - num-pcrpt-sent number
               - num-pcupd-rcvd number
               - num-pcupd-sent number
               - num-req-rcvd number
               - num-req-sent number
               - num-rpt-rcvd number
               - num-rpt-sent number
               - num-session-setup-fail number
               - num-session-setup-ok number
            - sync-state keyword
            + tls-client-profile reference
            + tls-wait-timer number
         + redelegation-timer number
         + report-path-constraints boolean
         - request-timer number
         + state-timer
            + timer number
            + timer-action keyword
         - sync-timer number
         + unknown-message-rate number
+  pim
   +  admin-state keyword
   -  database
      -  group group (ipv4-address | ipv6-address) source (ipv4-address | ipv6-address)
         -  advertising-router (ipv4-address | ipv6-address)
         -  current-forwarding-rate number
         -  immediate-outgoing-interface-count number
         -  inherited-outgoing-interface-count number
         -  inherited-rpt-outgoing-interface-count number
         -  join-or-prune-interface-count number
         -  keepalive-timer number
         -  local-rx-exclude-interface-count number
         -  local-rx-include-interface-count number
         -  lost-assert-interface-count number
         -  multicast-rib-nh-address (ipv4-address-with-zone | ipv6-address-with-zone)
         -  multicast-rib-source-flags bits
         -  outgoing-interface name string
            -  flags bits
            -  spmsi-interface-name string
         -  register-from-anycast-rp boolean
         -  register-state keyword
         -  register-stop-timer number
         -  resolved-by keyword
         -  rp-address (ipv4-address | ipv6-address)
         -  rpf-neighbor-address (ipv4-address | ipv6-address)
         -  rpf-neighbor-interface-name string
         -  rpf-neighbor-spmsi-interface-name string
         -  rpt-rpf-neighbor-address (ipv4-address | ipv6-address)
         -  s-g-rpt-prune-interface-count number
```


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```
            -  sg-state keyword
            -  source-flags bits
            -  source-type keyword
            -  spt-switchover-threshold number
            -  statistics
               -  discarded-packets number
               -  forwarded-octets number
               -  forwarded-packets number
               -  rpf-mismatches number
            -  up-time string
            -  upstream-jp-state keyword
            -  upstream-jp-timer number
            -  upstream-rpt-jp-state keyword
            -  upstream-rpt-override-timer number
      +  ecmp-balance boolean
      +  ecmp-balance-hold number
      +  ecmp-hashing
         +  rebalance boolean
      +  import-policies
         +  join-policy reference
         +  register-policy reference
      +  interface interface-name string
         +  admin-state keyword
         +  assert-interval number
         -  database
            -  group group (ipv4-address | ipv6-address) source (ipv4-address | ipv6-address)
               -  assert-metric number
               -  assert-metric-preference number
               -  assert-rpt-bit boolean
               -  assert-state keyword
               -  assert-timer number
               -  assert-winner-address (ipv4-address | ipv6-address)
               -  assert-winner-metric number
               -  assert-winner-metric-preference number
               -  assert-winner-rpt-bit boolean
               -  jp-rpt-pending-timer number
               -  jp-rpt-state keyword
               -  jp-rpt-timer number
               -  jp-state keyword
               -  jp-timer number
               -  prune-pending-timer number
               -  rp-address (ipv4-address | ipv6-address)
               -  source-type keyword
               -  up-time string
         +  dr-priority number
         +  hello-interval number
         +  hello-multiplier number
         +  improved-assert boolean
         -  ipv4
            -  dr-address string
            -  oper-priority number
            -  oper-state keyword
            -  statistics
               -  join-policy-drops number
               -  received
                  -  assert-errors number
                  -  assert-messages number
                  -  bad-checksum-discard number
                  -  bad-encodings number
                  -  bad-version-discard number
                  -  candidate-rp-adv-no-router-alert number
                  -  hello-messages number
                  -  hellos-dropped number
                  -  invalid-join-prune-messages number
```


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```
                - invalid-register-messages number
                - join-prune-errors number
                - join-prune-messages number
                - neighbor-unknown number
                - null-register-messages number
                - packets number
                - register-errors number
                - register-messages number
                - register-stop-errors number
                - register-stop-messages number
                - unknown-pdu-type number
             - register-policy-drops number
             - sg-count number
             - star-g-count number
             - star-star-rp-count number
             - transmitted
                - assert-messages number
                - hello-messages number
                - join-prune-messages number
                - packets number
                - register-stop-errors number
                - register-stop-messages number
          + ipv4-admin-state keyword
          - ipv6
             - dr-address string
             - oper-priority number
             - oper-state keyword
             - statistics
                - join-policy-drops number
                - received
                   - assert-errors number
                   - assert-messages number
                   - bad-checksum-discard number
                   - bad-encodings number
                   - bad-version-discard number
                   - candidate-rp-adv-no-router-alert number
                   - hello-messages number
                   - hellos-dropped number
                   - invalid-join-prune-messages number
                   - invalid-register-messages number
                   - join-prune-errors number
                   - join-prune-messages number
                   - neighbor-unknown number
                   - null-register-messages number
                   - packets number
                   - register-errors number
                   - register-messages number
                   - register-stop-errors number
                   - register-stop-messages number
                   - unknown-pdu-type number
                - register-policy-drops number
                - sg-count number
                - star-g-count number
                - star-star-rp-count number
                - transmitted
                   - assert-messages number
                   - hello-messages number
                   - join-prune-messages number
                   - packets number
                   - register-stop-errors number
                   - register-stop-messages number
          + ipv6-admin-state keyword
          + maximum-number-groups number
          + multicast-senders keyword
```


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```
        -  neighbors
           -  neighbor address (ipv4-address-with-zone | ipv6-address-with-zone)
              -  dr-priority number
              -  dr-priority-present boolean
              -  expiry-time number
              -  generated-id number
              -  hold-time number
              -  join-attribute-support boolean
              -  lan-delay number
              -  lan-delay-present boolean
              -  override-interval number
              -  tracking-support boolean
              -  up-time string
           -  oper-state keyword
     +  ipv4
           +  admin-state keyword
           -  oper-state keyword
           -  statistics
              -  forwarded-candidate-rp-advertisement-drops number
              -  forwarded-candidate-rp-advertisements number
              -  received
                 -  candidate-rp-advertisement-drops number
                 -  candidate-rp-advertisement-messages number
                 -  control-pdu-interface-drops number
              -  sg-count number
              -  star-g-count number
              -  star-star-rp-count number
              -  transmitted
                 -  candidate-rp-advertisement-errors number
                 -  candidate-rp-advertisement-messages number
                 -  null-register-messages number
                 -  register-errors number
                 -  register-messages number
                 -  register-ttl-drops number
     +  ipv6
           +  admin-state keyword
           -  oper-state keyword
           -  statistics
              -  forwarded-candidate-rp-advertisement-drops number
              -  forwarded-candidate-rp-advertisements number
              -  received
                 -  candidate-rp-advertisement-drops number
                 -  candidate-rp-advertisement-messages number
                 -  control-pdu-interface-drops number
              -  sg-count number
              -  star-g-count number
              -  star-star-rp-count number
              -  transmitted
                 -  candidate-rp-advertisement-errors number
                 -  candidate-rp-advertisement-messages number
                 -  null-register-messages number
                 -  register-errors number
                 -  register-messages number
                 -  register-ttl-drops number
     -  multicast-ecmp-last-rebalance-time string
     -  multicast-ecmp-next-balance-time number
     -  multicast-ecmp-rebalance-inprogress boolean
     -  multicast-ecmp-rebalance-type keyword
     -  oper-state keyword
     +  rendezvous-points
           +  static
              +  rendezvous-point address (ipv4-address | ipv6-address)
                 +  group prefix (ipv4-prefix-multicast | ipv6-prefix-multicast)
     +  ssm
```


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```
      + ssm-ranges
        + group-range ip-prefix (ipv4-prefix-multicast | ipv6-prefix-multicast)
  + trace-options
    + trace
      + events
        + all-event-types
          + detail boolean
          + group-address (ipv4-address | ipv6-address)
          + interface-name reference
          + source-address (ipv4-address | ipv6-address)
        + event-types
          + adjacency
          + assert
            + detail boolean
            + group-address (ipv4-address | ipv6-address)
            + source-address (ipv4-address | ipv6-address)
          + data-exception
            + detail boolean
            + group-address (ipv4-address | ipv6-address)
            + source-address (ipv4-address | ipv6-address)
          + database
            + detail boolean
            + group-address (ipv4-address | ipv6-address)
            + source-address (ipv4-address | ipv6-address)
          + interface
            + detail boolean
            + interface-name reference
          + join-prune
            + detail boolean
            + group-address (ipv4-address | ipv6-address)
            + source-address (ipv4-address | ipv6-address)
          + messaging
          + pim-route-table
            + detail boolean
          + register
            + detail boolean
            + group-address (ipv4-address | ipv6-address)
            + source-address (ipv4-address | ipv6-address)
      + packet
        + all-packet-types
          + all-interfaces
          + egress boolean
          + ingress boolean
          + interface-name reference
          + ipv4 boolean
          + ipv6 boolean
        + packet-types
          + assert
            + all-interfaces
            + egress boolean
            + ingress boolean
            + interface-name reference
            + ipv4 boolean
            + ipv6 boolean
          + hello
            + all-interfaces
            + egress boolean
            + ingress boolean
            + interface-name reference
            + ipv4 boolean
            + ipv6 boolean
          + join-prune
            + all-interfaces
            + egress boolean
```


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```
                     +  ingress boolean
                     +  interface-name reference
                     +  ipv4 boolean
                     +  ipv6 boolean
                  +  register
                     +  all-interfaces
                     +  egress boolean
                     +  ingress boolean
                     +  interface-name reference
                     +  ipv4 boolean
                     +  ipv6 boolean
                  +  register-stop
                     +  all-interfaces
                     +  egress boolean
                     +  ingress boolean
                     +  interface-name reference
                     +  ipv4 boolean
                     +  ipv6 boolean
   +  ptp
      -  oper-state keyword
      +  peer-limit number
      +  source-address-ipv4 string
      +  source-address-ipv6 string
   +  stp
      +  admin-state keyword
      +  bridge-address string
      -  bridge-id string
      +  bridge-priority number
      -  cist-internal-root-cost number
      -  cist-regional-root string
      -  cist-regional-root-port number
      -  cist-remaining-hop-count number
      -  designated-root string
      +  forward-delay number
      +  hello-time number
      +  hold-count number
      -  hold-time number
      +  max-age number
      -  oper-forward-delay number
      -  oper-hello-time number
      -  oper-max-age number
      -  oper-state keyword
      -  root-cost number
      -  root-port number
      -  time-since-topology-change string
      -  topology-change-active boolean
      -  topology-changes number
      +  trace-options
         +  trace keyword
+  route-limit family keyword
   +  maximum number
   -  maximum-exceeded boolean
   +  warning-only boolean
   +  warning-threshold-percent number
-  route-table
   -  ipv4-unicast
      -  prefix-length-distribution
         -  length prefix-length number
            -  active-routes number
      -  route ipv4-prefix string route-type identityref route-owner string id number origin-
network-instance reference
         -  active boolean
         -  counters
            -  octets-forwarded number
```


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```
            - packets-forwarded number
            - resource-allocation-failed boolean
            - resource-allocation-failed-locations string
         - dynamic-load-balancing boolean
         - fib-programming
            - last-failed-locations string
            - last-failed-operation-type keyword
            - last-successful-operation-timestamp string
            - last-successful-operation-type keyword
            - pending-operation-type keyword
            - suppressed boolean
         - gribi-metadata binary
         - group-based-policy-tag number
         - internal-tags string
         - last-app-update string
         - leakable boolean
         - leaked boolean
         - metric number
         - next-hop-group reference
         - next-hop-group-network-instance reference
         - preference number
         - resilient-hash boolean
         - route-limit-exceeded boolean
         - target-network-instances reference
      - route-summary
         - route-type ip-route-type-name identityref
            - active-routes number
      - statistics
         - active-routes number
         - active-routes-with-ecmp number
         - dynamic-load-balancing-routes number
         - fib-failed-routes number
         - fib-suppressed-routes number
         - leaked-routes number
         - resilient-hash-routes number
         - routes-with-per-prefix-statistics number
         - total-routes number
   - ipv6-unicast
      - prefix-length-distribution
         - length prefix-length number
            - active-routes number
      - route ipv6-prefix string route-type identityref route-owner string id number origin-
network-instance reference
         - active boolean
         - counters
            - octets-forwarded number
            - packets-forwarded number
            - resource-allocation-failed boolean
            - resource-allocation-failed-locations string
         - dynamic-load-balancing boolean
         - fib-programming
            - last-failed-locations string
            - last-failed-operation-type keyword
            - last-successful-operation-timestamp string
            - last-successful-operation-type keyword
            - pending-operation-type keyword
            - suppressed boolean
         - gribi-metadata binary
         - group-based-policy-tag number
         - internal-tags string
         - last-app-update string
         - leakable boolean
         - leaked boolean
         - metric number
```


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```
        - next-hop-group reference
        - next-hop-group-network-instance reference
        - preference number
        - resilient-hash boolean
        - route-limit-exceeded boolean
        - target-network-instances reference
     - route-summary
        - route-type ip-route-type-name identityref
           - active-routes number
     - statistics
        - active-routes number
        - active-routes-with-ecmp number
        - dynamic-load-balancing-routes number
        - fib-failed-routes number
        - fib-suppressed-routes number
        - leaked-routes number
        - resilient-hash-routes number
        - routes-with-per-prefix-statistics number
        - total-routes number
  - mpls
     - label-entry label-value number
        - entry-type identityref
        - fib-programming
           - last-failed-locations string
           - last-failed-operation-type keyword
           - last-successful-operation-timestamp string
           - last-successful-operation-type keyword
           - pending-operation-type keyword
           - suppressed boolean
        - last-app-update string
        - next-bgp-instance reference
        - next-ethernet-segment reference
        - next-hop-group reference
        - next-network-instance reference
        - operation keyword
     - statistics
        - fib-failed-entries number
        - total-entries number
     - table-summary
        - label-type entry-type identityref operation keyword
           - total-entries number
  - next-hop index number
     - counters
        x clear
        - octets-forwarded number
        - packets-forwarded number
        - resource-allocation-failed boolean
        - resource-allocation-failed-locations string
     - decapsulate-header keyword
     - indirect
        - resolved boolean
        - resolving-route
           - ip-prefix (ipv4-prefix | ipv6-prefix)
           - next-hop-group reference
           - route-owner string
           - route-type identityref
        - resolving-tunnel
           - ip-prefix (ipv4-prefix | ipv6-prefix)
           - next-hop-group reference
           - tunnel-id number
           - tunnel-owner string
           - tunnel-type identityref
        - usable boolean
     - interface-with-mac
```


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```
         - mac-address string
      - ip-address (ipv4-address | ipv6-address)
      - mpls
         - next-hop-group reference
         - tunnel
            - ip-prefix (ipv4-prefix | ipv6-prefix)
            - network-instance reference
            - owner string
            - tunnel-id number
            - type identityref
      - mpls-encapsulation
         - entropy-label-transmit boolean
         - pushed-mpls-label-stack (number | keyword)
         - traffic-class number
      - programmed-index number
      - redirect
         - network-instance reference
      - resource-allocation-failed boolean
      - srv6
         - tunnel
            - ip-prefix (ipv4-prefix | ipv6-prefix)
            - network-instance reference
            - owner string
            - tunnel-id number
            - type identityref
      - srv6-endpoint
         - behavior identityref
         - block-length number
         - locator-name reference
         - sid-value string
         - srh-mode keyword
         - tunnel
            - ip-prefix (ipv4-prefix | ipv6-prefix)
            - network-instance reference
            - owner string
            - tunnel-id number
            - type identityref
      - subinterface reference
      - tunnel
         - encapsulate-header keyword
         - gre
            - destination-ip (ipv4-address | ipv6-address)
            - in-profile-dscp number
            - ip-ttl number
            - out-profile-dscp number
            - source-ip (ipv4-address | ipv6-address)
         - ip-in-ip
            - destination-ip (ipv4-address | ipv6-address)
            - source-ip (ipv4-address | ipv6-address)
         - ip-prefix (ipv4-prefix | ipv6-prefix)
         - network-instance reference
         - owner string
         - tunnel-id number
         - type identityref
         - udp
            - destination-ip (ipv4-address | ipv6-address)
            - destination-udp-port number
            - in-profile-dscp number
            - ip-ttl number
            - out-profile-dscp number
            - source-ip (ipv4-address | ipv6-address)
      - type identityref
      - vxlan-encapsulation
         - destination-mac string
```


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```
         -  interface string
         -  vni number
   -  next-hop-group index number
      -  backup-active boolean
      -  backup-next-hop id number
         -  next-hop reference
         -  resolved keyword
         -  resource-allocation-failed boolean
      -  backup-next-hop-group reference
      -  consistent-ecmp boolean
      -  dynamic-load-balancing
         -  enabled boolean
         -  flows-rebalanced number
         -  requested boolean
      -  fib-programming
         -  last-failed-locations string
         -  last-failed-operation-type keyword
         -  last-successful-operation-timestamp string
         -  last-successful-operation-type keyword
         -  pending-operation-type keyword
         -  suppressed boolean
      -  group-name-alias string
      -  next-hop id number
         -  next-hop reference
         -  resolved keyword
         -  resource-allocation-failed boolean
         -  weight number
      -  programmed-index number
   -  nh-counters
      x  clear
+  router-id string
+  segment-routing
   +  mpls
      +  global-block
         +  label-range reference
         -  label-range-status keyword
      +  ingress-statistics boolean
      +  local-prefix-sid prefix-sid-index number
         +  flex-algo flex-algo-id reference
            +  ipv4-node-sid
               +  index number
            +  ipv6-node-sid
               +  index number
         +  interface string
         +  ipv4-label-index number
         +  ipv6-label-index number
         +  node-sid boolean
      -  sid-database
         -  prefix-sid prefix (ipv4-prefix | ipv6-prefix) sid-label-
value number protocol keyword protocol-instance number protocol-multi-
topology number algorithm number
            -  active boolean
            -  prefix-conflict boolean
            -  sid-conflict boolean
      -  sid-statistics
         -  label label number
            -  algorithm number
            -  interface string
            -  octets number
            -  oper-state keyword
            -  packets number
            -  prefix string
            -  resource-allocation keyword
   +  srv6
```


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```
      +  instance id number
         +  bridge-table
            -  multicast-destinations
               -  destination tep (ipv4-address | ipv6-address) sid (ipv4-address | ipv6-
address)
                  -  destination-index number
                  -  multicast-forwarding keyword
                  -  not-programmed-reason keyword
               -  multicast-limit
                  -  current-usage number
                  -  maximum-entries number
            -  statistics
               -  active-entries number
               -  failed-entries number
               -  mac-type type keyword
                  -  active-entries number
                  -  failed-entries number
                  -  total-entries number
               -  total-entries number
            -  unicast-destinations
               -  destination tep (ipv4-address | ipv6-address) sid (ipv4-address | ipv6-
address)
                  -  destination-index number
                  -  mac-table
                     -  mac address string
                        -  failed-slots number
                        -  last-update string
                        -  not-programmed-reason keyword
                        -  type keyword
                  -  not-programmed-reason keyword
                  -  statistics
                     -  active-entries number
                     -  failed-entries number
                     -  mac-type type keyword
                        -  active-entries number
                        -  failed-entries number
                        -  total-entries number
                     -  total-entries number
               -  es-destination esi string
                  -  destination tep (ipv4-address | ipv6-address) sid (ipv4-address | ipv6-
address)
                  -  destination-index number
                  -  mac-table
                     -  mac address string
                        -  failed-slots number
                        -  last-update string
                        -  not-programmed-reason keyword
                        -  type keyword
                  -  statistics
                     -  active-entries number
                     -  failed-entries number
                     -  mac-type type keyword
                        -  active-entries number
                        -  failed-entries number
                        -  total-entries number
                     -  total-entries number
         +  locator locator-name reference
            +  full-segment
               +  function
                  +  end value number
                     -  sid string
                     +  srh-mode keyword
                     -  status keyword
                  +  end-dt4
```


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```
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  end-dt46
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  end-dt6
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  end-dx2
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  end-x value number
                  +  protection keyword
                  -  sid string
                  +  srh-mode keyword
                  -  status keyword
                  +  subinterface-name string
               +  end-x-auto-allocate srh-mode keyword protection keyword
               -  end-x-auto-allocated-sids owner keyword request-id number
                  -  oper-value number
                  -  sid string
                  -  status keyword
         +  micro-segment
            +  function
               +  ua value number
                  -  oper-value number
                  +  protection keyword
                  -  sid string
                  +  srh-mode keyword
                  -  status keyword
                  +  subinterface-name string
               +  ua-auto-allocate srh-mode keyword protection keyword
               -  ua-auto-allocated-sids owner keyword request-id number
                  -  oper-value number
                  -  sid string
                  -  status keyword
               +  udt4
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  udt46
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  udt6
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
               +  udx2
                  -  oper-value number
                  -  sid string
                  -  status keyword
                  +  value number
```


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```
      -  status keyword
+  static
   +  next-hop index number
      +  drop
      +  encap-header index number
         +  gre
            +  destination-ip (ipv4-address-unicast | ipv6-address-unicast)
            +  dscp number
            +  in-profile-dscp number
            +  ip-ttl number
            +  out-profile-dscp number
            +  source-ip (ipv4-address-unicast | ipv6-address-unicast)
         +  mpls
            +  label number
            +  traffic-class number
         +  type keyword
         +  udp-v4
            +  destination-ip string
            +  destination-udp-port number
            +  ip-ttl number
            +  source-ip string
         +  udp-v6
            +  destination-ip string
            +  destination-udp-port number
            +  ip-ttl number
            +  source-ip string
      +  failure-detection
         +  cpe-check
            +  drop-threshold number
            +  interval number
            +  logging boolean
            +  padding number
         +  enable-bfd
            +  local-address (ipv4-address | ipv6-address)
            +  local-discriminator number
            +  remote-discriminator number
      +  ip-address (ipv4-address-with-zone | ipv6-address-with-zone)
      +  local-link
         +  interface-ref
            +  interface reference
            +  subinterface reference
      +  next-hop-network-instance reference
      +  resolve boolean
   +  next-hop-group name string
      +  backup-next-hop-group reference
      +  next-hop index reference
+  static-routes
   +  admin-state keyword
   +  instance-name string
   +  route prefix (ipv4-prefix | ipv6-prefix)
      +  admin-state keyword
      +  follow
         +  next-longest boolean
      +  group-based-policy
         +  group reference
      -  installed boolean
      +  metric number
      +  next-hop-group reference
      +  preference number
      +  static-next-hop-group reference
      +  tag-set reference
      +  tag-value (number | hex-string)
-  system-ipv4-address
   -  oper-down-reason keyword
```


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```
   -  oper-state keyword
-  system-ipv6-address
   -  oper-down-reason keyword
   -  oper-state keyword
+  table-connections
   +  admin-state keyword
   +  table-connection source-protocol identityref destination-protocol identityref address-
family keyword
      +  default-import-policy keyword
      +  disable-metric-propagation boolean
      +  import-policy reference
-  tcp
   -  connection local-address (ipv4-address | ipv6-address) local-port number remote-
address (ipv4-address | ipv6-address) remote-port number
      -  process-id number
      -  session-state keyword
   -  listening-application local-address (ipv4-address | ipv6-address) local-port number
      -  process-id number
   -  statistics
      -  active-opens number
      -  attempt-fails number
      -  established-resets number
      -  in-checksum-errors number
      -  in-error-segments number
      -  in-segments number
      -  out-rst-segments number
      -  out-segments number
      -  passive-opens number
      -  retransmitted-segments number
+  traffic-engineering
   +  admin-groups
      +  group name string
         +  bit-position number
   +  autonomous-system number
   +  bgp-ls
      +  export
         +  reachable-ls-only boolean
   +  interface interface-name string
      +  admin-group reference
      +  interface-ref
         +  interface reference
         +  subinterface reference
      +  srlg-membership reference
      +  te-metric number
   +  ipv4-te-router-id string
   +  ipv6-te-router-id string
   +  shared-risk-link-groups
      +  group name string
         +  value number
+  traffic-engineering-policies
   +  binding-sid
      +  dynamic-label-block reference
      -  dynamic-label-block-status keyword
      +  static-label-block reference
      -  static-label-block-status keyword
   +  explicit-paths
      +  path explicit-path-name string
         +  hop index number
            +  ip
               +  hop-type keyword
               +  ip-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
            +  mpls-label number
   +  policy policy-name string
      +  admin-state keyword
```


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```
      +  binding-sid
         +  mpls-label number
      +  candidate-path-preference number
      +  color number
      +  discriminator number
      +  endpoint (ipv4-address-unicast | ipv6-address-unicast-without-local)
      +  head-end (ipv4-address-unicast | ipv6-address-unicast-without-local | keyword)
      +  metric number
      +  policy-type keyword
      +  protection
         +  protection-policy reference
         +  return-path
            +  mpls-label number
      +  re-optimization-timer (number | keyword)
      +  retry-timer number
      +  segment-list segment-list-index number
         +  admin-state keyword
         +  dynamic
            +  fallback-path-algorithm keyword
            +  path-algorithm keyword
            +  te-constraints
               +  delay-metric-limit (keyword | number)
               +  exclude-admin-group reference
               +  exclude-hop (ipv4-address-unicast | ipv6-address-unicast-without-local)
               +  exclude-srlg reference
               +  hop-limit number
               +  include-admin-group reference
               +  label-stack-reduction boolean
               +  local-sr-protection keyword
               +  metric-type keyword
               +  pce-associations
                  +  diversity reference
                  +  policy-association reference
               +  secondary-srlg boolean
               +  segment-depth
                  +  segment-limit number
         +  explicit-path reference
         +  pce-control boolean
         +  pce-report boolean
         +  priority
            +  hold-priority number
            +  setup-priority number
         +  segment-list-preference number
         +  segment-list-type keyword
         +  weight number
      +  statistics
         +  egress
            +  admin-state keyword
         +  ingress
            +  admin-state keyword
      +  tag-set reference
   -  policy-database
      -  active-te-policies number
      -  sr-colored
         -  policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            -  active-candidate-path-name string
            -  binding-sid
               -  allocation-status boolean
               -  mpls-label number
            -  candidate-path protocol-origin keyword discriminator number originator-
asn number originator-address (ipv4-address | ipv6-address)
               -  bfd
                  -  hold-down-timer number
```


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```
                  - hold-down-timer-expiry string
               - binding-sid
                  - allocation-status boolean
                  - mpls-label number
               - candidate-path-name string
               - candidate-path-preference number
               - forwarding-state keyword
               - last-oper-state-change string
               - oper-down-reason identityref
               - oper-state keyword
               - oper-state-change-count number
               - operational-segment-list-count number
               - protection
                  - protection-policy string
                  - return-path
                     - mpls-label number
                  - threshold number
               - revert-timer number
               - revert-timer-expiry string
               - segment-list segment-list-index number
                  - bfd
                     - bfd-state keyword
                     - bfd-wait-for-up-expiry string
                     - bfd-wait-for-up-timer number
                     - hold-down-timer number
                     - hold-down-timer-expiry string
                  - computed-segments
                     - segment segment-index number
                        - hop-type keyword
                        - ip-address (ipv4-address-unicast | ipv6-address-unicast-without-
local)
                        - is-loose boolean
                        - router-id (ipv4-address | ipv6-address)
                        - sid-type keyword
                        - sid-value
                           - mpls-label number
                        - unnumbered-if-id number
                  - delay-metric number
                  - dynamic
                     - path-algorithm keyword
                     - te-constraints
                        - delay-metric-limit (keyword | number)
                        - exclude-admin-group string
                        - exclude-hop (ipv4-address-unicast | ipv6-address-unicast-without-
local)
                        - exclude-srlg string
                        - hop-limit number
                        - include-admin-group string
                        - label-stack-reduction boolean
                        - local-sr-protection keyword
                        - metric-type keyword
                        - pce-associations
                           - diversity reference
                           - policy-association reference
                        - secondary-srlg boolean
                        - segment-depth
                           - segment-limit number
                  - explicit-path string
                  - failed-reason identityref
                  - forwarding-state keyword
                  - igp-metric number
                  - last-oper-state-change string
                  - last-pce-update
                     - failure-reason identityref
```


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```
                  - state keyword
                  - time string
                  - update-id number
               - last-reoptimization-attempt string
               - last-retry-attempt string
               - lsp-id number
               - mbb
                  - in-progress-mbb
                     - start-time string
                     - type keyword
                  - last-mbb
                     - end-time string
                     - failed-reason identityref
                     - old-metric number
                     - state keyword
                     - type keyword
               - metric number
               - next-reoptimization-attempt string
               - next-retry-attempt string
               - oper-state keyword
               - oper-state-change-count number
               - path-computation-requests number
               - pce-control boolean
               - pce-report boolean
               - retry-attempts number
               - revert-timer number
               - revert-timer-expiry string
               - segment-list-preference number
               - segment-list-type keyword
               - statistics
                  - egress
                     - octets number
                     - packets number
                     - resource-allocation keyword
               - te-metric number
               - weight number
            - segment-list-count number
         - candidate-path-count number
         - created-time string
         - last-oper-state-change string
         - metric number
         - oper-down-reason identityref
         - oper-state keyword
         - oper-state-change-count number
         - policy-type keyword
         - protection
            - protection-policy string
            - return-path
               - mpls-label number
            - threshold number
         - statistics
            - ingress
               - octets number
               - packets number
               - resource-allocation keyword
         - tunnel-id number
   - sr-uncolored
      - policy policy-name string protocol-origin keyword
         - active-segment-list-index number
         - binding-sid
            - allocation-status boolean
            - mpls-label number
         - created-time string
         - endpoint (ipv4-address-unicast | ipv6-address-unicast-without-local)
```


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```
            - head-end (ipv4-address-unicast | ipv6-address-unicast-without-local)
            - last-oper-state-change string
            - metric number
            - oper-down-reason identityref
            - oper-state keyword
            - oper-state-change-count number
            - policy-type keyword
            - protection
               - protection-policy string
               - return-path
                  - mpls-label number
               - threshold number
            - segment-list segment-list-index number
               - bfd
                  - bfd-state keyword
                  - bfd-wait-for-up-expiry string
                  - bfd-wait-for-up-timer number
                  - hold-down-timer number
                  - hold-down-timer-expiry string
               - computed-segments
                  - segment segment-index number
                     - hop-type keyword
                     - ip-address (ipv4-address-unicast | ipv6-address-unicast-without-local)
                     - is-loose boolean
                     - router-id (ipv4-address | ipv6-address)
                     - sid-type keyword
                     - sid-value
                        - mpls-label number
                     - unnumbered-if-id number
               - delay-metric number
               - dynamic
                  - path-algorithm keyword
                  - te-constraints
                     - delay-metric-limit (keyword | number)
                     - exclude-admin-group string
                     - exclude-hop (ipv4-address-unicast | ipv6-address-unicast-without-local)
                     - exclude-srlg string
                     - hop-limit number
                     - include-admin-group string
                     - label-stack-reduction boolean
                     - local-sr-protection keyword
                     - metric-type keyword
                     - pce-associations
                        - diversity reference
                        - policy-association reference
                     - secondary-srlg boolean
                     - segment-depth
                        - segment-limit number
               - explicit-path string
               - failed-reason identityref
               - forwarding-state keyword
               - igp-metric number
               - last-oper-state-change string
               - last-pce-update
                  - failure-reason identityref
                  - state keyword
                  - time string
                  - update-id number
               - last-reoptimization-attempt string
               - last-retry-attempt string
               - lsp-id number
               - mbb
                  - in-progress-mbb
                     - start-time string
```


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```
                     -  type keyword
                  -  last-mbb
                     -  end-time string
                     -  failed-reason identityref
                     -  old-metric number
                     -  state keyword
                     -  type keyword
               -  metric number
               -  next-reoptimization-attempt string
               -  next-retry-attempt string
               -  oper-state keyword
               -  oper-state-change-count number
               -  path-computation-requests number
               -  pce-control boolean
               -  pce-report boolean
               -  retry-attempts number
               -  revert-timer number
               -  revert-timer-expiry string
               -  segment-list-preference number
               -  segment-list-type keyword
               -  te-metric number
               -  weight number
            -  segment-list-count number
            -  statistics
               -  egress
                  -  octets number
                  -  packets number
                  -  resource-allocation keyword
               -  ingress
                  -  octets number
                  -  packets number
                  -  resource-allocation keyword
            -  tag-set reference
            -  tunnel-id number
      -  total-te-policies number
   +  template template-name string
      +  metric number
      +  protection
         +  protection-policy reference
      +  statistics
         +  egress
            +  admin-state keyword
         +  ingress
            +  admin-state keyword
      +  tag-set reference
      +  template-id (number | keyword)
      +  template-type keyword
-  tunnel-table
   -  ipv4
      -  statistics
         -  active-tunnels number
         -  fib-failed-tunnels number
         -  inactive-tunnels number
         -  total-tunnels number
      -  tunnel ipv4-prefix string type identityref owner string id number
         -  color number
         -  fib-programming
            -  last-failed-locations string
            -  last-failed-operation-type keyword
            -  last-successful-operation-timestamp string
            -  last-successful-operation-type keyword
            -  pending-operation-type keyword
            -  suppressed boolean
         -  flex-algo-id number
```


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```
        - gre
          - destination-address (ipv4-address | ipv6-address)
          - in-profile-dscp number
          - ip-ttl number
          - out-profile-dscp number
          - source-address (ipv4-address | ipv6-address)
        - igp-instance-id number
        - internal-tags string
        - ip-in-ip
          - destination-address (ipv4-address | ipv6-address)
          - source-address (ipv4-address | ipv6-address)
        - last-app-update string
        - metric number
        - next-hop-group reference
        - preference number
        - resource-allocation-failed boolean
        - udp
          - destination-address (ipv4-address | ipv6-address)
          - destination-udp-port number
          - in-profile-dscp number
          - ip-ttl number
          - out-profile-dscp number
          - source-address (ipv4-address | ipv6-address)
        - vxlan
          - destination-address (ipv4-address | ipv6-address)
          - destination-udp-port number
          - source-address (ipv4-address | ipv6-address)
          - time-to-live number
    - tunnel-summary
      - tunnel-type type identityref
        - active-tunnels number
        - fib-failed-tunnels number
        - inactive-tunnels number
        - total-tunnels number
- ipv6
    - statistics
      - active-tunnels number
      - fib-failed-tunnels number
      - inactive-tunnels number
      - total-tunnels number
    - tunnel ipv6-prefix string type identityref owner string id number
      - color number
      - fib-programming
        - last-failed-locations string
        - last-failed-operation-type keyword
        - last-successful-operation-timestamp string
        - last-successful-operation-type keyword
        - pending-operation-type keyword
        - suppressed boolean
      - flex-algo-id number
      - gre
        - destination-address (ipv4-address | ipv6-address)
        - in-profile-dscp number
        - ip-ttl number
        - out-profile-dscp number
        - source-address (ipv4-address | ipv6-address)
      - igp-instance-id number
      - internal-tags string
      - ip-in-ip
        - destination-address (ipv4-address | ipv6-address)
        - source-address (ipv4-address | ipv6-address)
      - last-app-update string
      - metric number
      - next-hop-group reference
```


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```
         -  preference number
         -  resource-allocation-failed boolean
         -  udp
            -  destination-address (ipv4-address | ipv6-address)
            -  destination-udp-port number
            -  in-profile-dscp number
            -  ip-ttl number
            -  out-profile-dscp number
            -  source-address (ipv4-address | ipv6-address)
         -  vxlan
            -  destination-address (ipv4-address | ipv6-address)
            -  destination-udp-port number
            -  source-address (ipv4-address | ipv6-address)
            -  time-to-live number
      -  tunnel-summary
         -  tunnel-type type identityref
            -  active-tunnels number
            -  fib-failed-tunnels number
            -  inactive-tunnels number
            -  total-tunnels number
+  type identityref
-  udp
   -  listening-application local-address (ipv4-address | ipv6-address) local-port number
      -  process-id number
   -  statistics
      -  ignored-multicast-packets number
      -  in-checksum-errors number
      -  in-error-packets number
      -  in-no-open-ports-packets number
      -  in-packets number
      -  out-packets number
      -  receive-buffer-errors number
      -  send-buffer-errors number
+  vxlan-interface name string
   +  bridge-table
      +  domain number
   -  oper-down-reason keyword
   -  oper-state keyword
```


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6.1 network-instance Descriptions

network-instance name *string*

Description	Network instances configured on the local system
Context	network-instance name *string*
Tree	network-instance
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	A unique name identifying the network instance
Context	network-instance name *string*
String Length	1 to 247
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	This leaf contains the configured, desired state of the network instance.
Context	network-instance name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

afts

Description	Enter the afts context The abstract forwarding tables (AFTs) that are associated with the network instance

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Context	network-instance name *string* afts
Tree	afts
Configurable	False
Platforms	Supported on all platforms

ipv4-unicast

Description	Enter the ipv4-unicast context The abstract forwarding table for IPv4 unicast Entries within this table are uniquely keyed on the IPv4 unicast destination prefix which is matched by ingress packets. The data set represented by the IPv4 Unicast AFT is the set of entries from the IPv4 unicast RIB that have been selected for installation into the FIB of the device exporting the data structure.
Context	network-instance name *string* afts ipv4-unicast
Tree	ipv4-unicast
Configurable	False
Platforms	Supported on all platforms

ipv4-entry prefix *string*

Description	List of the IPv4 unicast entries within the abstract forwarding table
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string*
Tree	ipv4-entry
Configurable	False
Platforms	Supported on all platforms

prefix *string*

Description	The IPv4 destination prefix that should be matched to utilise the AFT entry
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string*
Configurable	False
Platforms	Supported on all platforms

counters

Description	Enter the counters context

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	Packet forwarding counters
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* counters
Tree	counters
Configurable	False
Platforms	Supported on all platforms

octets-forwarded *number*

Description	The number of octets in the packets that were forwarded
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available statistics resource was not available for this forwarding object
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* counters resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

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resource-allocation-failed-locations *string*

Description	List of forwarding complexes that reported a stat resource allocation failure. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* counters resource-allocation-failed-locations *string*
Tree	resource-allocation-failed-locations
Configurable	False
Platforms	Supported on all platforms

entry-metadata *binary*

Description	Metadata persistently stored with the entry
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* entry-metadata *binary*
Tree	entry-metadata
String Length	0 to 8
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	A reference to the next-hop-group that is used for the entry
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop-group-network-instance *reference*

Description	The network instance associated with the next-hop-group If unspecified, the next hop group is in the local network instance.
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* next-hop-group-network-instance *reference*
Tree	next-hop-group-network-instance

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Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

origin-network-instance *reference*

Description	The network-instance from which the IPv4 entry was learned if it was leaked from another network-instance If unspecified, the IPv4 entry was not leaked
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* origin-network-instance *reference*
Tree	origin-network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

origin-protocol *identityref*

Description	The protocol that submitted the route for the IPv4 prefix
Context	network-instance name *string* afts ipv4-unicast ipv4-entry prefix *string* origin-protocol *identityref*
Tree	origin-protocol
Options	• aggregate Locally configured aggregate route • arp-nd IP route added by ARP ND. • bgp Border Gateway Protocol version 4 • bgp-evpn BGP Ethernet VPN (EVPN) Interface-less • bgp-evpn-iff BGP Ethernet VPN (EVPN) Interface-ful • bgp-evpn-ifl-host BGP Ethernet VPN (EVPN) Interface-less Host • bgp-ipvpn BGP IP VPN • bgp-label

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BGP labeled-unicast

- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

ipv6-unicast

Description Enter the ipv6-unicast context

The abstract forwarding table for IPv6 unicast

Entries within this table are uniquely keyed on the IPv6 unicast destination prefix which is matched by ingress packets. The data set represented by the

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IPv6 Unicast AFT is the set of entries from the IPv6 unicast RIB that have been selected for installation into the FIB of the device exporting the data structure.

Context	network-instance name *string* afts ipv6-unicast
Tree	ipv6-unicast
Configurable	False
Platforms	Supported on all platforms

ipv6-entry prefix *string*

Description	List of the IPv6 unicast entries within the abstract forwarding table
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string*
Tree	ipv6-entry
Configurable	False
Platforms	Supported on all platforms

prefix *string*

Description	The IPv6 destination prefix that should be matched to utilise the AFT entry
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string*
Configurable	False
Platforms	Supported on all platforms

entry-metadata *binary*

Description	Metadata persistently stored with the entry
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string* entry-metadata *binary*
Tree	entry-metadata
String Length	0 to 8
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	A reference to the next-hop-group that is used for the entry

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Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop-group-network-instance *reference*

Description	The network instance associated with the next-hop-group If unspecified, the next hop group is in the local network instance.
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string* next-hop-group-network-instance *reference*
Tree	next-hop-group-network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

origin-network-instance *reference*

Description	The network-instance from which the IPv6 entry was learned if it was leaked from another network-instance If unspecified, the IPv6 entry was not leaked
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string* origin-network-instance *reference*
Tree	origin-network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

origin-protocol *identityref*

Description	The protocol that submitted the route for the IPv6 prefix
Context	network-instance name *string* afts ipv6-unicast ipv6-entry prefix *string* origin-protocol *identityref*
Tree	origin-protocol
Options	• aggregate

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Locally configured aggregate route

- arp-nd
  IP route added by ARP ND.
- bgp
  Border Gateway Protocol version 4
- bgp-evpn
  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff
  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host
  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn
  BGP IP VPN
- bgp-label
  BGP labeled-unicast
- dhcp
  IP (default) route added by DHCP.
- gribi
  A gRIBI route
- host
  A host route
- isis
  IS-IS
- local
  A directly connected route
- linux
  IP route added by the linux kernel.
- ndk1
  Route added by an agent application using the NDK
- ndk2
  Route added by an agent application using the NDK
- ospfv2
  OSPFv2
- ospfv3
  OSPFv3
- sr-submgmt

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Subscriber-management route

- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

next-hop index *number*

Description A next-hop associated with a forwarding entry

Context network-instance name *string* afts next-hop index *number*

Tree next-hop

Configurable False

Platforms Supported on all platforms

index *number*

Description A unique index identifying the next-hop entry

Context network-instance name *string* afts next-hop index *number*

Configurable False

Platforms Supported on all platforms

counters

Description Enter the counters context

Packet forwarding counters

Context network-instance name *string* afts next-hop index *number* counters

Tree counters

Configurable False

Platforms Supported on all platforms

octets-forwarded *number*

Description The number of octets in the packets that were forwarded

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Context	network-instance name *string* afts next-hop index *number* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* afts next-hop index *number* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available statistics resource was not available for this forwarding object
Context	network-instance name *string* afts next-hop index *number* counters resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed-locations *string*

Description	List of forwarding complexes that reported a stat resource allocation failure. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* afts next-hop index *number* counters resource-allocation-failed-locations *string*
Tree	resource-allocation-failed-locations
Configurable	False
Platforms	Supported on all platforms

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encap-header index *number*

Description	An encap header The inner-most header is the 0th value and is adjacent to the original payload packet. Additional headers are added in index order. For example, in an encapsulation stack for MPLS in UDPv4, the first index in the list is the MPLS header and the second index is a UDPv4 header.
Context	network-instance name *string* afts next-hop index *number* encap-header index *number*
Tree	encap-header
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	A pointer to an entry in an ordered list of encapsulation headers
Context	network-instance name *string* afts next-hop index *number* encap-header index *number*
Configurable	False
Platforms	Supported on all platforms

gre

Description	Enter the gre context Container of nodes for GRE encapsulation
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre
Tree	gre
Configurable	False
Platforms	Supported on all platforms

destination-ip *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	False

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Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* gre source-ip *(ipv4-address | ipv6-address)*

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Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

ipv4

Description	Enter the ipv4 context Container of nodes for IPv4 encapsulation When this container is used, an IPv4 header with no subsequent transport header is added to the packet
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* ipv4
Tree	ipv4
Configurable	False
Platforms	Supported on all platforms

destination-ip *string*

Description	Destination IP address in the added IPv4 header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* ipv4 destination-ip *string*
Tree	destination-ip
Configurable	False
Platforms	Supported on all platforms

source-ip *string*

Description	The source IP address in the added IPv4 header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* ipv4 source-ip *string*
Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

ipv6

Description	Enter the ipv6 context

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Container of nodes for IPv6 encapsulation

When this container is used, an IPv6 header with no subsequent transport header is added to the packet

Context network-instance name *string* afts next-hop index *number* encap-header index *number* ipv6

Tree ipv6

Configurable False

Platforms Supported on all platforms

destination-ip *string*

Description Destination IP address in the added IPv6 header

Context network-instance name *string* afts next-hop index *number* encap-header index *number* ipv6 destination-ip *string*

Tree destination-ip

Configurable False

Platforms Supported on all platforms

source-ip *string*

Description The source IP address in the added IPv6 header

Context network-instance name *string* afts next-hop index *number* encap-header index *number* ipv6 source-ip *string*

Tree source-ip

Configurable False

Platforms Supported on all platforms

mpls

Description Enter the mpls context

Container of nodes for MPLS encapsulation

Context network-instance name *string* afts next-hop index *number* encap-header index *number* mpls

Tree mpls

Configurable False

Platforms Supported on all platforms

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mpls-label-stack *(number | keyword)*

Description A stack of MPLS label values

The first entry in the list is the label at the bottom of the stack. The bottom of the stack is adjacent to the MPLS payload.

For example, a packet with a label stack of two labels, the bottom label being 42 and the top label being 8072 will be represented with a leaf-list of [42, 8072]. The resulting packet, starting with the beginning of the packet will be [8072][42][Payload].

Context network-instance name *string* afts next-hop index *number* encap-header index *number* mpls mpls-label-stack *(number | keyword)*

Tree mpls-label-stack

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms Supported on all platforms

traffic-class *number*

Description The value of the MPLS traffic class (TC) bits written into each pushed label

Context network-instance name *string* afts next-hop index *number* encap-header index *number* mpls traffic-class *number*

Tree traffic-class

Range 0 to 7

Configurable False

Platforms Supported on all platforms

type *keyword*

Description Type of encapsulation header(s)

Context network-instance name *string* afts next-hop index *number* encap-header index *number* type *keyword*

Tree type

Options

- none

  There is no encapsulation header

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- gre

  The encapsulation header is a Generic Routing Encapsulation header
- ipv4

  The encapsulation header is an IPv4 packet header
- ipv6

  The encapsulation header is an IPv6 packet header
- mpls

  The encapsulation header is one or more MPLS labels
- vxlan

  The encapsulation header is a VXLAN packet header
- udp-v4

  The encapsulation header is a UDP + IPv4 header
- udp-v6

  The encapsulation header is a UDP + IPv6 header

Configurable False

Platforms Supported on all platforms

udp-v4

Description Enter the udp-v4 context

Container of nodes for UDP in IPv4 encapsulation

Context network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4

Tree udp-v4

Configurable False

Platforms Supported on all platforms

destination-ip *string*

Description Destination IP address in the added IPv4 header

Context network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 destination-ip *string*

Tree destination-ip

Configurable False

Platforms Supported on all platforms

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destination-udp-port *number*

Description	Destination UDP port number in the added UDP header Usually this reflects the encoded payload type
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 destination-udp-port *number*
Tree	destination-udp-port
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	The IP TTTL in the added IP header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 out-profile-dscp *number*
Tree	out-profile-dscp

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Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-ip *string*

Description	The source IP address in the added IPv4 header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v4 source-ip *string*
Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

udp-v6

Description	Enter the udp-v6 context Container of nodes for UDP in IPv6 encapsulation
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6
Tree	udp-v6
Configurable	False
Platforms	Supported on all platforms

destination-ip *string*

Description	Destination IP address in the added IPv6 header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 destination-ip *string*
Tree	destination-ip
Configurable	False
Platforms	Supported on all platforms

destination-udp-port *number*

Description	Destination UDP port number in the added UDP header Usually this reflects the encoded payload type

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Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 destination-udp-port *number*
Tree	destination-udp-port
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	The IP TTTL in the added IP header
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

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source-ip *string*

Description The source IP address in the added IPv6 header

Context network-instance name *string* afts next-hop index *number* encap-header index *number* udp-v6 source-ip *string*

Tree source-ip

Configurable False

Platforms Supported on all platforms

vxlan

Description Enter the vxlan context

Container of nodes for VXLAN encapsulation

Context network-instance name *string* afts next-hop index *number* encap-header index *number* vxlan

Tree vxlan

Configurable False

Platforms Supported on all platforms

vni-label *number*

Description VXLAN Network Identifier of the destination

Context network-instance name *string* afts next-hop index *number* encap-header index *number* vxlan vni-label *number*

Tree vni-label

Range 1 to 16777215

Configurable False

Platforms Supported on all platforms

interface-ref

Description Enter the interface-ref context

Reference to a subinterface

Context network-instance name *string* afts next-hop index *number* interface-ref

Tree interface-ref

Configurable False

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Platforms	Supported on all platforms

interface *reference*

Description	Reference to a base interface, for example a port or LAG
Context	network-instance name *string* afts next-hop index *number* interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	False
Platforms	Supported on all platforms

subinterface *reference*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	network-instance name *string* afts next-hop index *number* interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	False
Platforms	Supported on all platforms

ip-address *(ipv4-address | ipv6-address)*

Description	The IP address of the next-hop
Context	network-instance name *string* afts next-hop index *number* ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	Supported on all platforms

mac-address *string*

Description	The MAC address of the next-hop if programmed explicitly
Context	network-instance name *string* afts next-hop index *number* mac-address *string*

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Tree	mac-address
Configurable	False
Platforms	Supported on all platforms

network-instance *reference*

Description	A network instance targeted for redirection
Context	network-instance name *string* afts next-hop index *number* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

programmed-index *number*

Description	The configured or client-supplied index of the next-hop
Context	network-instance name *string* afts next-hop index *number* programmed-index *number*
Tree	programmed-index
Configurable	False
Platforms	Supported on all platforms

next-hop-group id *number*

Description	An individual set of next-hops grouped into a common group Each entry within an abstract forwarding table points to a next-hop-group. Traffic is forwarded to the next-hops in the next-hop-group according to the weights specified.
Context	network-instance name *string* afts next-hop-group id *number*
Tree	next-hop-group
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	A unique identifier for the next-hop-group

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	This index is not expected to be consistent across reboots, or reprogramming of the next-hop-group.
Context	network-instance name *string* afts next-hop-group id *number*
Configurable	False
Platforms	Supported on all platforms

backup-active *boolean*

Description	When true, this NHG is not being used to forward traffic and its backup NHG is being relied upon to provide reachability
Context	network-instance name *string* afts next-hop-group id *number* backup-active *boolean*
Tree	backup-active
Configurable	False
Platforms	Supported on all platforms

backup-next-hop-group *reference*

Description	The backup next-hop-group for the current group
Context	network-instance name *string* afts next-hop-group id *number* backup-next-hop-group *reference*
Tree	backup-next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop index *reference*

Description	An individual next-hop within the next-hop-group Each next-hop is a reference to an entry within the next-hop list.
Context	network-instance name *string* afts next-hop-group id *number* next-hop index *reference*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

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index *reference*

Description	A reference to the identifier for the next-hop to which the entry in the next-hop group corresponds
Context	network-instance name *string* afts next-hop-group id *number* next-hop index *reference*
Reference	network-instance name *string* afts next-hop index *number*
Configurable	False
Platforms	Supported on all platforms

weight *number*

Description	The weight applied to the next-hop within the group
Context	network-instance name *string* afts next-hop-group id *number* next-hop index *reference* weight *number*
Tree	weight
Configurable	False
Platforms	Supported on all platforms

programmed-id *number*

Description	The ID of the next-hop group as provided by the original programming mechanism (for example gRIBI)
Context	network-instance name *string* afts next-hop-group id *number* programmed-id *number*
Tree	programmed-id
Configurable	False
Platforms	Supported on all platforms

aggregate-routes

Description	Enable the aggregate-routes context
Context	network-instance name *string* aggregate-routes
Tree	aggregate-routes
Configurable	True
Platforms	Supported on all platforms

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instance-name *string*

Description	The name of the aggregate routing instance (optional)
Context	network-instance name *string* aggregate-routes instance-name *string*
Tree	instance-name
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the route list instance
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)*
Tree	route
Configurable	True
Platforms	Supported on all platforms
Max. Elements	16384

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable this aggregate route.
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* admin-state *keyword*

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Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

aggregator

Description	Enter the aggregator context
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* aggregator
Tree	aggregator
Configurable	True
Platforms	Supported on all platforms

address *string*

Description	Specifies the aggregator's IP address.
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* aggregator address *string*
Tree	address
Configurable	True
Platforms	Supported on all platforms

as-number *number*

Description	Specifies the aggregator's ASN
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* aggregator as-number *number*
Tree	as-number
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

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communities

Description Enter the communities context

Context network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* communities

Tree communities

Configurable True

Platforms Supported on all platforms

add *(bgp-std-community-type | identityref | bgp-large-community-type)*

Description Enter the add context

Context network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* communities add *(bgp-std-community-type | identityref | bgp-large-community-type)*

Tree add

Options

- no-export

  Do not export NLRI received carrying this community outside the bounds of this autonomous system, or this confederation if the local autonomous system is a confederation member AS. This community has a value of 0xFFFFFF01.

- no-advertise

  All NLRI received carrying this community must not be advertised to other BGP peers. This community has a value of 0xFFFFFF02.

- no-export-subconfed

  All NLRI received carrying this community must not be advertised to external BGP peers - including over confederation sub-AS boundaries. This community has a value of 0xFFFFFF03.

Configurable True

Platforms Supported on all platforms

Max. Elements 12

generate-icmp *boolean*

Description When set to true the router generares ICMP unreachable messages for packets matching the aggregate route (and not a more specific route).

Context network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* generate-icmp *boolean*

Tree generate-icmp

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Configurable	True
Platforms	Supported on all platforms

installed *boolean*

Description	If set to true, this indicates that the aggregate route was installed into the datapath. If this is false then there are 2 possible reasons: (a) the admin-state is disable (b) there is another IP route for the same prefix that has a superior preference
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* installed *boolean*
Tree	installed
Configurable	False
Platforms	Supported on all platforms

summary-only *boolean*

Description	When set to true the router blocks the advertisement of all contributing routes of this aggregate route in dynamic protocols such as BGP.
Context	network-instance name *string* aggregate-routes route prefix *(ipv4-prefix | ipv6-prefix)* summary-only *boolean*
Tree	summary-only
Default	false
Configurable	True
Platforms	Supported on all platforms

bfd

Description	Enter the bfd context Container for BFD related network-instance related configuration
Context	network-instance name *string* bfd
Tree	bfd
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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seamless-bfd

Description	Enter the seamless-bfd context Container for BFD related network-instance related configuration
Context	network-instance name *string* bfd seamless-bfd
Tree	seamless-bfd
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer address *(ipv4-address | ipv6-address)*

Description	Enter the peer list instance
Context	network-instance name *string* bfd seamless-bfd peer address *(ipv4-address | ipv6-address)*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	An IPv4 or IPv6 address of the farend seamless-bfd descriminator binding
Context	network-instance name *string* bfd seamless-bfd peer address *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description	Static seamless-BFD discriminator for the farend binding
Context	network-instance name *string* bfd seamless-bfd peer address *(ipv4-address | ipv6-address)* discriminator *number*
Tree	discriminator

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector name *string*

Description	List of seamless BFD reflector instances
Context	network-instance name *string* bfd seamless-bfd reflector name *string*
Tree	reflector
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *string*

Description	A name for the local seamless-bfd reflector agent
Context	network-instance name *string* bfd seamless-bfd reflector name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Used to administratively enable or disable seamless-bfd reflector
Context	network-instance name *string* bfd seamless-bfd reflector name *string* admin-state *keyword*
Tree	admin-state
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description	Description of the seamless-bfd reflector
Context	network-instance name *string* bfd seamless-bfd reflector name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	Seamless-BFD discriminator for the local reflector agent
Context	network-instance name *string* bfd seamless-bfd reflector name *string* local-discriminator *number*
Tree	local-discriminator
Range	524288 to 526335
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-rib

Description	Enter the bgp-rib context Container for BGP RIB state
Context	network-instance name *string* bgp-rib
Tree	bgp-rib
Configurable	False
Platforms	Supported on all platforms

afi-safi afi-safi-name *identityref*

Description	List of address families with routes in the BGP RIB
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref*

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Tree	afi-safi
Configurable	False
Platforms	Supported on all platforms

afi-safi-name *identityref*

Description	The name of the address family
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref*
Options	• ipv4-unicast Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1) • ipv6-unicast Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1) • l3vpn-ipv4-unicast VPN-IPv4 unicast address family (AFI = 1, SAFI = 128) • l3vpn-ipv6-unicast VPN-IPv6 unicast address family (AFI = 2, SAFI = 128) • ipv4-labeled-unicast Labeled IPv4 unicast routes (AFI 1, SAFI 4) • ipv6-labeled-unicast Labeled IPv6 unicast routes (AFI 2, SAFI 4) • evpn EVPN routes (AFI = 25, SAFI = 70) • ipv4-mvpn L3 MVPN routes (AFI = 1, SAFI = 5) • ipv6-mvpn L3 MVPN routes (AFI = 2, SAFI = 5) • ipv4-flowspec-v1 FlowSpec routes (AFI = 1, SAFI = 133) • ipv6-flowspec-v1 FlowSpec routes (AFI = 2, SAFI = 133) • route-target Route target constraint routes (AFI 1, SAFI 132) • srte-policy-ipv4 TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73) • srte-policy-ipv6 TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)

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- link-state

  Link State (AFI 16388, SAFI 71)

Configurable False

Platforms Supported on all platforms

evpn

Description Enter the evpn context

Container for RIB state of EVPN routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn

Tree evpn

Configurable False

Platforms Supported on all platforms

local-rib

Description Enter the local-rib context

Container for local RIB state of EVPN routes

Includes the post import-policy RIB-INs corresponding to EVPN routes received from default net-instance BGP peers (post import-policy means after processing by the BGP import policy attached to the default net-instance peer and after processing by the vrf-import policy of importing network instances) plus the post vrf-export policy “imported” routes from local network instances.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib

Tree local-rib

Configurable False

Platforms Supported on all platforms

ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Ethernet AD (Auto-Discovery) routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-*

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type-2b) esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree	ethernet-ad-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

imported-network-instances *reference*

Description	List of network instances that imported the route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*
Tree	imported-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-*

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type-2b) esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

label

Description	Enter the label context The encoded label value and type in the EVPN NLRI

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used. For all the cases, if this is an Auto-Discovery per ES route, this leaf is set to zero.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

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Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

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Tree	pending-delete
Configurable	False
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

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Tree	tie-break-reason
Options	• unknown • none • origin • as-path-length • next-hop-cost • med • local-pref • aggregate • originator-id • cluster-list • extended-community • aigp • missing-attribute • rtm-pref • owner • eigp-labeled • vpn-route • ebgp-route • peer-ip • local-peer • multi-path • vpn-rd • next-hop-type • invalid-route • origin-validation • long-live-gr-stale • default-originate • fib-install-disabled • peer-router-id • path-identifier • domain-path-length
Configurable	False
Platforms	Supported on all platforms

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

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ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Ethernet Segment routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ethernet-segment-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

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flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update

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received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

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route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False

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Platforms	Supported on all platforms

imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Inclusive Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	imet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

imported-network-instances *reference*

Description List of network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*

Tree imported-network-instances

Reference network-instance name *string*

Configurable False

Platforms Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

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pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	Supported on all platforms

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

ip-prefix-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix \| ipv6-prefix)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of IP prefix routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ip-prefix-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ip-prefix-length *number*

Description	IP prefix length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

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backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

dpath-looped-network-instances *reference*

Description	List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-network-instances *reference*
Tree	dpath-looped-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*

Tree esi

Configurable False

Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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gateway-ip *(ipv4-address | ipv6-address)*

Description	An IP address that encodes an overlay index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* gateway-ip *(ipv4-address | ipv6-address)*
Tree	gateway-ip
Configurable	False
Platforms	Supported on all platforms

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

imported-network-instances *reference*

Description	List of network instances that imported the route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*
Tree	imported-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-*

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prefix) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

label

Description Enter the label context

The encoded label value and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

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value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-*

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prefix) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner

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- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Mac/IP Advertisement routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	mac-ip-route
Configurable	False
Platforms	Supported on all platforms

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

mac-length *number*

Description	MAC address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 48
Units	bits
Configurable	False
Platforms	Supported on all platforms

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mac-address *string*

Description The MAC address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ip-address *(ipv4-address | ipv6-address)*

Description The IP host address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

dpath-looped-network-instances *reference*

Description List of network instances in which a loop due to the D-PATH attribute is detected

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* dpath-looped-network-instances *reference*

Tree dpath-looped-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* esi *string*

Tree esi

Configurable False

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Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

imported-network-instances *reference*

Description List of network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*

Tree imported-network-instances

Reference network-instance name *string*

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

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Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms Supported on all platforms

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

label1

Description	Enter the label1 context The encoded label1 value (used for layer 2 services) and type in the EVPN NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1
Tree	label1
Configurable	False
Platforms	Supported on all platforms

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value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

label2

Description Enter the label2 context

The encoded label2 value (used for layer 3 services) and type in the EVPN NLRI

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2

Tree label2

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value-type *keyword*

Tree value-type

Options

- mpls-label
- vni

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- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address \| ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address \| ipv6-address)* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Leave Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-leave-synch-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)*

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multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-

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length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-group-length *number*

Description The multicast group address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

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multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

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Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

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Options	• 0 • 1
Configurable	False
Platforms	Supported on all platforms

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

imported-network-instances *reference*

Description	List of network instances that imported the route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*
Tree	imported-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

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as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-*

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address) originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-*

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address) originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms Supported on all platforms

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms Supported on all platforms

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

maximum-response-time *number*

Description	The value to be used while sending a query
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* maximum-response-time *number*
Tree	maximum-response-time
Units	deciseconds
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)*

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multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-

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length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

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Configurable	False
Platforms	Supported on all platforms

unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address \| ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address \| ipv6-address)* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Membership Report Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-membership-report-synch-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description	The multicast source IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

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multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

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Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*
Tree	igmp-mld-version-2
Configurable	False
Platforms	Supported on all platforms

igmp-version-3 *boolean*

Description	When set to true, it indicates version 3 When the route is used for IPv4, it refers to IGMP version 3.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*
Tree	igmp-version-3
Configurable	False
Platforms	Supported on all platforms

include-exclude-group-type *keyword*

Description	The Include/Exclude Group type bit Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

imported-network-instances *reference*

Description List of network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*

Tree imported-network-instances

Reference network-instance name *string*

Configurable False

Platforms Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

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as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-*

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address | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-*

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address | ipv6-address) originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms Supported on all platforms

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms Supported on all platforms

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-*

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address) multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-*

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2 | route-distinguisher-type-2b) esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

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This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community

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- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

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smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Selective Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	smet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0	route-distinguisher-type-1	route-distinguisher-type-2	route-distinguisher-type-*

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2b) ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-group-length *number*

Description The multicast group address length

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*

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Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number*

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multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

The SMET route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

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Tree	igmp-mld-version-1
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-2 *boolean*

Description	When set to true, it indicates version 2 When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*
Tree	igmp-mld-version-2
Configurable	False
Platforms	Supported on all platforms

igmp-version-3 *boolean*

Description	When set to true, it indicates version 3 When the route is used for IPv4, it refers to IGMP version 3
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*
Tree	igmp-version-3
Configurable	False
Platforms	Supported on all platforms

include-exclude-group-type *keyword*

Description	The Include/Exclude Group type bit

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Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

imported-network-instances *reference*

Description List of network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router

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(ipv4-address | ipv6-address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-network-instances *reference*

Tree imported-network-instances

Reference network-instance name *string*

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

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Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone*

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| *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number*

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multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-

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source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms Supported on all platforms

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms Supported on all platforms

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-

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source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

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Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router

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(ipv4-address | ipv6-address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-

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source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-*

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distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route

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- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn local-rib smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

rib-in-out

Description	Enter the rib-in-out context Container for BGP routes learned and advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out
Tree	rib-in-out
Configurable	False
Platforms	Supported on all platforms

rib-in-post

Description	Enter the rib-in-post context

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Container for the post-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post

Tree rib-in-post

Configurable False

Platforms Supported on all platforms

ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Ethernet AD (Auto-Discovery) routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree ethernet-ad-route

Configurable False

Platforms Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |*

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route-distinguisher-type-2b) esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

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cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

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Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

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label

Description Enter the label context

The encoded label value and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used. For all the cases, if this is an Auto-Discovery per ES route, this leaf is set to zero.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-*

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address-with-zone | ipv6-address-with-zone) path-id *number* label value-type *keyword*

Tree value-type

Options
- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

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pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor

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(ipv4-address-with-zone | ipv6-address-with-zone) path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	Supported on all platforms

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tie-break-reason *keyword*

Description

Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree

tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Ethernet Segment routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ethernet-segment-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

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pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

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tie-break-reason *keyword*

Description

Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree

tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Inclusive Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	imet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0*

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| *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0*

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| *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0*

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| *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

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pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

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valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IP prefix routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ip-prefix-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ip-prefix-length *number*

Description	IP prefix length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

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backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*
Tree	esi
Configurable	False
Platforms	Supported on all platforms

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fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gateway-ip *(ipv4-address \| ipv6-address)*

Description	An IP address that encodes an overlay index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* gateway-ip *(ipv4-address | ipv6-address)*
Tree	gateway-ip
Configurable	False
Platforms	Supported on all platforms

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-

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prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

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as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-

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prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms Supported on all platforms

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

label

Description Enter the label context

The encoded label value and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of

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the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-

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prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-*

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address-with-zone) path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	Supported on all platforms

tie-break-reason *keyword*

Description	Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*
Tree	tie-break-reason
Options	• unknown • none • origin • as-path-length • next-hop-cost • med • local-pref

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- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Mac/IP Advertisement routes

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	mac-ip-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

mac-length *number*

Description	MAC address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-*

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distinguisher-type-2b) ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range	0 to 48
Units	bits
Configurable	False
Platforms	Supported on all platforms

mac-address *string*

Description	The MAC address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ip-address *(ipv4-address | ipv6-address)*

Description	The IP host address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-

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address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

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Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*
Tree	esi
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed

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Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False

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Platforms Supported on all platforms

label1

Description Enter the label1 context

The encoded label1 value (used for layer 2 services) and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1

Tree label1

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

label2

Description Enter the label2 context

The encoded label2 value (used for layer 3 services) and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2

Tree label2

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* label2 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* label2 value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

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Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-*

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distinguisher-type-2b) ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none

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- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

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multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Leave Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-leave-synch-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-

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source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-*

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address | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags

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Tree	flags
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-1 *boolean*

Description	When set to true, it indicates version 1 When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*
Tree	igmp-mld-version-1
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-2 *boolean*

Description	When set to true, it indicates version 2 When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*
Tree	igmp-mld-version-2
Configurable	False
Platforms	Supported on all platforms

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igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options

- 0
- 1

Configurable False

Platforms Supported on all platforms

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

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Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-*

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2 | route-distinguisher-type-2b) esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

maximum-response-time *number*

Description The value to be used while sending a query

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* maximum-response-time *number*

Tree maximum-response-time

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Units	deciseconds
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

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Tree	stale-route
Configurable	False
Platforms	Supported on all platforms

tie-break-reason *keyword*

Description	Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*
Tree	tie-break-reason
Options	• unknown • none • origin • as-path-length • next-hop-cost • med • local-pref • aggregate • originator-id • cluster-list • extended-community • aigp • missing-attribute • rtm-pref • owner • eigp-labeled • vpn-route • ebgp-route • peer-ip • local-peer • multi-path

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- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-

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source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Multicast Membership Report Synch routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree multicast-membership-report-synch-route

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Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI The Ethernet Tag ID identifies a broadcast domain.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-

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id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

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multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address \| ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address \| ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-

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id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms Supported on all platforms

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

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igmp-mld-version-1 *boolean*

Description	When set to true, it indicates version 1 When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*
Tree	igmp-mld-version-1
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-2 *boolean*

Description	When set to true, it indicates version 2 When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*
Tree	igmp-mld-version-2
Configurable	False
Platforms	Supported on all platforms

igmp-version-3 *boolean*

Description	When set to true, it indicates version 3 When the route is used for IPv4, it refers to IGMP version 3.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options

- 0
- 1

Configurable False

Platforms Supported on all platforms

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-*

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address | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-

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address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

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domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-*

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distinguisher-type-2 | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

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Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

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Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-*

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distinguisher-type-2 | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Description List of Selective Multicast Ethernet Tag routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Tree smet-route

Configurable False

Platforms Supported on all platforms

route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-group-length *number*

Description The multicast group address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description The multicast group IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length

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number multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length

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number multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms Supported on all platforms

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

The SMET route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

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When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options

- 0
- 1

Configurable False

Platforms Supported on all platforms

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

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internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

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as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-*

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zone | *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms Supported on all platforms

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms Supported on all platforms

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms Supported on all platforms

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length

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number multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

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Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-*

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zone | ipv6-address-with-zone) path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-*

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distinguisher-type-2b) ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp

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- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre

Tree rib-in-pre

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Configurable	False
Platforms	Supported on all platforms

ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Ethernet AD (Auto-Discovery) routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ethernet-ad-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-*

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distinguisher-type-2b) esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

label

Description Enter the label context

The encoded label value and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used. For all the cases, if this is an Auto-Discovery per ES route, this leaf is set to zero.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

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value-type *keyword*

Description	Whether the encoded label value is an mpls-label, a vni or a transposed function or argument
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*
Tree	value-type
Options	• mpls-label • vni • transposed-srv6-function
Configurable	False
Platforms	Supported on all platforms

ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Ethernet Segment routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ethernet-segment-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |*

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route-distinguisher-type-2b) esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

imet-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Inclusive Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	imet-route

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Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

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ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IP prefix routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ip-prefix-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ip-prefix-length *number*

Description	IP prefix length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*

Tree esi

Configurable False

Platforms Supported on all platforms

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gateway-ip *(ipv4-address | ipv6-address)*

Description	An IP address that encodes an overlay index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* gateway-ip *(ipv4-address | ipv6-address)*
Tree	gateway-ip
Configurable	False
Platforms	Supported on all platforms

label

Description	Enter the label context The encoded label value and type in the EVPN NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label
Tree	label
Configurable	False
Platforms	Supported on all platforms

value *number*

Description	The value of the label field If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*
Tree	value

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Range	0 to 16777215
Configurable	False
Platforms	Supported on all platforms

value-type *keyword*

Description	Whether the encoded label value is an mpls-label, a vni or a transposed function or argument
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*
Tree	value-type
Options	• mpls-label • vni • transposed-srv6-function
Configurable	False
Platforms	Supported on all platforms

mac-ip-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Mac/IP Advertisement routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	mac-ip-route
Configurable	False
Platforms	Supported on all platforms

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

mac-length *number*

Description	MAC address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 48
Units	bits
Configurable	False
Platforms	Supported on all platforms

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mac-address *string*

Description	The MAC address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ip-address *(ipv4-address \| ipv6-address)*

Description	The IP host address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*

Tree esi

Configurable False

Platforms Supported on all platforms

label1

Description Enter the label1 context

The encoded label1 value (used for layer 2 services) and type in the EVPN NLRI

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1

Tree label1

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value-type *keyword*

Tree value-type

Options

- mpls-label

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- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

label2

Description Enter the label2 context

The encoded label2 value (used for layer 3 services) and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2

Tree label2

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

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value-type *keyword*

Description	Whether the encoded label value is an mpls-label, a vni or a transposed function or argument
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value-type *keyword*
Tree	value-type
Options	• mpls-label • vni • transposed-srv6-function
Configurable	False
Platforms	Supported on all platforms

multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address \| ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address \| ipv6-address)* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Leave Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-leave-synch-route
Configurable	False
Platforms	Supported on all platforms

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms	Supported on all platforms

multicast-source-length *number*

Description	The multicast source address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-source-address *(ipv4-address \| ipv6-address)*

Description	The multicast source IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-*

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address | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address* | *ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address* | *ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0*	*route-distinguisher-type-1*	*route-distinguisher-type-*

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2 | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

flags

Description Enter the flags context

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The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-*

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address | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options

- 0
- 1

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Configurable	False
Platforms	Supported on all platforms

maximum-response-time *number*

Description	The value to be used while sending a query
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* maximum-response-time *number*
Tree	maximum-response-time
Units	deciseconds
Configurable	False
Platforms	Supported on all platforms

multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 \| route-distinguisher-type-1 \| route-distinguisher-type-2 \| route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address \| ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address \| ipv6-address)* originating-router *(ipv4-address \| ipv6-address)* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Membership Report Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-membership-report-synch-route
Configurable	False
Platforms	Supported on all platforms

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-group-length *number*

Description The multicast group address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-

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distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description The multicast group IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

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Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

flags

Description	Enter the flags context The Multicast Membership Report Synch route Flags field in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags
Tree	flags
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-1 *boolean*

Description	When set to true, it indicates version 1 When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*
Tree	igmp-mld-version-1
Configurable	False
Platforms	Supported on all platforms

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igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*
Tree	include-exclude-group-type
Options	• 0 • 1
Configurable	False
Platforms	Supported on all platforms

smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Selective Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	smet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-*

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type-2b) ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

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multicast-source-address *(ipv4-address | ipv6-address)*

Description	The multicast source IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False

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Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

flags

Description	Enter the flags context The SMET route Flags field in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags
Tree	flags
Configurable	False
Platforms	Supported on all platforms

igmp-mld-version-1 *boolean*

Description	When set to true, it indicates version 1 When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0*

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| *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

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include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-in-pre smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms Supported on all platforms

ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Ethernet AD (Auto-Discovery) routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 |*

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route-distinguisher-type-2b) esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree	ethernet-ad-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

label

Description	Enter the label context The encoded label value and type in the EVPN NLRI

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label
Tree	label
Configurable	False
Platforms	Supported on all platforms

value *number*

Description	The value of the label field If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used. For all the cases, if this is an Auto-Discovery per ES route, this leaf is set to zero.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*
Tree	value
Range	0 to 16777215
Configurable	False
Platforms	Supported on all platforms

value-type *keyword*

Description	Whether the encoded label value is an mpls-label, a vni or a transposed function or argument
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*
Tree	value-type
Options	• mpls-label • vni

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- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-ad-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*

Tree next-hop

Configurable False

Platforms Supported on all platforms

ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Ethernet Segment routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree ethernet-segment-route

Configurable False

Platforms Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

esi *string*

Description The Ethernet Segment Identifier

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

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path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop *(ipv4-address \| ipv6-address)*

Description	The advertised BGP next-hop address.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ethernet-segment-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

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imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Inclusive Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	imet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description	The advertised BGP next-hop address.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post imet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IP prefix routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	ip-prefix-route
Configurable	False
Platforms	Supported on all platforms

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ip-prefix-length *number*

Description	IP prefix length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

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ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*
Tree	esi
Configurable	False
Platforms	Supported on all platforms

gateway-ip *(ipv4-address \| ipv6-address)*

Description	An IP address that encodes an overlay index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* gateway-ip *(ipv4-address | ipv6-address)*
Tree	gateway-ip
Configurable	False
Platforms	Supported on all platforms

label

Description	Enter the label context

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The encoded label value and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label value-type *keyword*

Tree value-type

Options

- mpls-label

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- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post ip-prefix-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* ip-prefix-length *number* ip-prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*

Tree next-hop

Configurable False

Platforms Supported on all platforms

mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Mac/IP Advertisement routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree mac-ip-route

Configurable False

Platforms Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

mac-length *number*

Description MAC address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Range 0 to 48

Units bits

Configurable False

Platforms Supported on all platforms

mac-address *string*

Description The MAC address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-

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address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ip-address *(ipv4-address | ipv6-address)*

Description The IP host address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* esi *string*
Tree	esi
Configurable	False
Platforms	Supported on all platforms

label1

Description	Enter the label1 context The encoded label1 value (used for layer 2 services) and type in the EVPN NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1
Tree	label1
Configurable	False

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Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label1 value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

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label2

Description Enter the label2 context

The encoded label2 value (used for layer 3 services) and type in the EVPN NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2

Tree label2

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-*

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distinguisher-type-2b) ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* label2 value-type *keyword*

Tree value-type

Options
- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post mac-ip-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* mac-length *number* mac-address *string* ip-address *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*

Tree next-hop

Configurable False

Platforms Supported on all platforms

multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of Multicast Leave Synch routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Tree	multicast-leave-synch-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

ethernet-tag-id *number*

Description	The 32-bit Ethernet Tag ID encoded in the NLRI The Ethernet Tag ID identifies a broadcast domain.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-*

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address) multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-group-length *number*

Description The multicast group address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-*

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2 | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address* | *ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address* | *ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

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flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

maximum-response-time *number*

Description The value to be used while sending a query

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* maximum-response-time *number*

Tree maximum-response-time

Units deciseconds

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-leave-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*

Tree next-hop

Configurable False

Platforms Supported on all platforms

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multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Multicast Membership Report Synch routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	multicast-membership-report-synch-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

esi *string*

Description	The Ethernet Segment Identifier
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-

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distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

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multicast-source-address *(ipv4-address | ipv6-address)*

Description	The multicast source IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address | ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-*

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address) neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

originating-router *(ipv4-address | ipv6-address)*

Description The IPv4 or IPv6 address of the originating router

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-

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id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

flags

Description Enter the flags context

The Multicast Membership Report Synch route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

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igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

igmp-mld-version-2 *boolean*

Description When set to true, it indicates version 2

When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*

Tree igmp-mld-version-2

Configurable False

Platforms Supported on all platforms

igmp-version-3 *boolean*

Description When set to true, it indicates version 3

When the route is used for IPv4, it refers to IGMP version 3.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*

Tree igmp-version-3

Configurable False

Platforms Supported on all platforms

include-exclude-group-type *keyword*

Description The Include/Exclude Group type bit

Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options

- 0
- 1

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address | ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post multicast-membership-report-synch-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* esi *string* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-

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address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address | ipv6-address)*

Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of Selective Multicast Ethernet Tag routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	smet-route
Configurable	False
Platforms	Supported on all platforms

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI

The Ethernet Tag ID identifies a broadcast domain

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

multicast-source-length *number*

Description The multicast source address length

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 0 to 128

Units bits

Configurable False

Platforms Supported on all platforms

multicast-source-address *(ipv4-address | ipv6-address)*

Description The multicast source IP address

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable	False
Platforms	Supported on all platforms

multicast-group-length *number*

Description	The multicast group address length
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Range	0 to 128
Units	bits
Configurable	False
Platforms	Supported on all platforms

multicast-group-address *(ipv4-address \| ipv6-address)*

Description	The multicast group IP address
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

originating-router *(ipv4-address \| ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)*

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originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

flags

Description Enter the flags context

The SMET route Flags field in the NLRI

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags

Tree flags

Configurable False

Platforms Supported on all platforms

igmp-mld-version-1 *boolean*

Description When set to true, it indicates version 1

When the route is used for IPv4, it refers to IGMP version 1. When used for IPv6, it refers to MLD version 1.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-1 *boolean*

Tree igmp-mld-version-1

Configurable False

Platforms Supported on all platforms

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igmp-mld-version-2 *boolean*

Description	When set to true, it indicates version 2 When the route is used for IPv4, it refers to IGMP version 2. When used for IPv6, it refers to MLD version 2.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-mld-version-2 *boolean*
Tree	igmp-mld-version-2
Configurable	False
Platforms	Supported on all platforms

igmp-version-3 *boolean*

Description	When set to true, it indicates version 3 When the route is used for IPv4, it refers to IGMP version 3
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address | ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address | ipv6-address)* originating-router *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* flags igmp-version-3 *boolean*
Tree	igmp-version-3
Configurable	False
Platforms	Supported on all platforms

include-exclude-group-type *keyword*

Description	The Include/Exclude Group type bit Value 0 indicates Include Group type, and value 1 indicates Exclude Group type.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-*

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type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* flags include-exclude-group-type *keyword*

Tree include-exclude-group-type

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

next-hop *(ipv4-address* | *ipv6-address)*

Description The advertised BGP next-hop address.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* evpn rib-in-out rib-out-post smet-route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* ethernet-tag-id *number* multicast-source-length *number* multicast-source-address *(ipv4-address* | *ipv6-address)* multicast-group-length *number* multicast-group-address *(ipv4-address* | *ipv6-address)* originating-router *(ipv4-address* | *ipv6-address)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* next-hop *(ipv4-address* | *ipv6-address)*

Tree next-hop

Configurable False

Platforms Supported on all platforms

ipv4-flowspec-v1

Description Enter the ipv4-flowspec-v1 context

Container for RIB state of ipv4-flowspec-v1 routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1

Tree ipv4-flowspec-v1

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description Enter the local-rib context

Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all IPv4 routes learned from all BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib

Tree local-rib

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description List of ipv4-flowspec-v1 routes. Keys to route include prefix, neighbor, origin and path-id. If route is imported route from other local protocols, neighbor IP address will be zero. If route is selected to be advertised to peer by local BGP speaker's decision making process, then the origin will be set to 'bgp'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-protocol *identityref*

Description If the route was imported from another protocol, this is the protocol name.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- aggregate

  Locally configured aggregate route

- arp-nd

  IP route added by ARP ND.

- bgp

  Border Gateway Protocol version 4

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- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

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Locally configured static route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | ipv6-address-with-zone) origin-protocol *identityref* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components destination-port *string*

Tree destination-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-prefix *string*

Description Destination prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components destination-prefix *string*

Tree destination-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description DSCP / traffic-class component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components dscp-mark *string*

Tree dscp-mark

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components flow-label *string*
Tree	flow-label
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description	Fragment component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components fragment *string*
Tree	fragment
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description	ICMP code component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components icmp-code *string*
Tree	icmp-code

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description	ICMP type component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components icmp-type *string*
Tree	icmp-type
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description	IP protocol / next-header (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components ip-protocol *string*
Tree	ip-protocol
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components packet-length *string*

Tree packet-length

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components port *string*

Tree port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description Source port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components source-port *string*

Tree source-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description Source prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components source-prefix *string*

Tree source-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tcp-flags *string*

Description TCP flags component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components tcp-flags *string*

Tree tcp-flags

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-raw *string*

Tree nlri-raw

String Length 1 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*
Tree	flap-count
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out

Tree rib-in-out

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of ipv4-flowspec-v1 routes in the RIB-IN, after import-policy modification.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description	CRC value calculated over the encoded nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

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Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description	Enter the nlri-components context Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components
Tree	nlri-components
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description	Destination port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*
Tree	destination-port
String Length	0 to 256

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description	Destination prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*
Tree	destination-prefix
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description	DSCP / traffic-class component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*
Tree	dscp-mark
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*

Tree flow-label

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description Fragment component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*

Tree fragment

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmp-code *string*

Description ICMP code component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*

Tree icmp-code

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description ICMP type component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*

Tree icmp-type

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description IP protocol / next-header (decoded operands).

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*

Tree packet-length

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*

Tree port

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description	Source port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*
Tree	source-port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description	Source prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*
Tree	source-prefix
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description TCP flags component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*

Tree tcp-flags

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*

Tree nlri-raw

String Length 1 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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	IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale

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- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre

Tree rib-in-pre

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of ipv4-flowspec-v1 routes in the RIB-IN, before import-policy modification.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components
Tree	nlri-components
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description	Destination port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*
Tree	destination-port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description	Destination prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*
Tree	destination-prefix
String Length	0 to 256

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description	DSCP / traffic-class component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*
Tree	dscp-mark
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description	IPv6 flow label component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*
Tree	flow-label
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description Fragment component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*

Tree fragment

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description ICMP code component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*

Tree icmp-code

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmp-type *string*

Description ICMP type component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*

Tree icmp-type

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description IP protocol / next-header (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*
Tree	packet-length
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description	Port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*
Tree	port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description	Source port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*
Tree	source-port

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description	Source prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*
Tree	source-prefix
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description	TCP flags component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*
Tree	tcp-flags
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*

Tree nlri-raw

String Length 1 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of ipv4-flowspec-v1 routes in the RIB-OUT, after export-policy modification.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

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Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*

Tree destination-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description Destination prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*

Tree destination-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description DSCP / traffic-class component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*

Tree dscp-mark

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*

Tree flow-label

String Length 0 to 256

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description	Fragment component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*
Tree	fragment
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description	ICMP code component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*
Tree	icmp-code
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description ICMP type component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*

Tree icmp-type

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description IP protocol / next-header (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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packet-length *string*

Description Packet length component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*

Tree packet-length

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*

Tree port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description Source port component (decoded operands).

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*

Tree source-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description Source prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*

Tree source-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description TCP flags component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*

Tree tcp-flags

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description	FlowSpec NLRI raw data as hex string chunks.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*
Tree	nlri-raw
String Length	1 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

ipv4-labeled-unicast

Description	Enter the ipv4-labeled-unicast context Container for RIB state of labeled IPv4-unicast routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast
Tree	ipv4-labeled-unicast
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description	Enter the local-rib context Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all label-IPv4 routes learned from all BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib
Tree	local-rib
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description	List of label-IPv4 routes in the local RIB
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-protocol *identityref*

Description If the route was imported from another protocol, this is the protocol name.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

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BGP labeled-unicast

- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/bgp-rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*

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Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*
Tree	flap-count
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description	Reads true when the current FOM for a recently withdrawn route is greater than 0
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*
Tree	history
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled

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- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out

Tree rib-in-out

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

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The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled

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- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-mpls-label *(number | keyword)*

Description	Received MPLS label value
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*
Tree	received-mpls-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertised-mpls-label *(number | keyword)*

Description Advertised MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* advertised-mpls-label *(number | keyword)*

Tree advertised-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA

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entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description Enter the ipv4-unicast context

Container for RIB state of IPv4-unicast routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast

Tree ipv4-unicast

Configurable False

Platforms Supported on all platforms

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local-rib

Description	Enter the local-rib context Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all IPv4 routes learned from all BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib
Tree	local-rib
Configurable	False
Platforms	Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description	List of IPv4 routes in the local RIB
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

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Configurable	False
Platforms	Supported on all platforms

origin-protocol *identityref*

Description	If the route was imported from another protocol, this is the protocol name.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Options	• aggregate Locally configured aggregate route • arp-nd IP route added by ARP ND. • bgp Border Gateway Protocol version 4 • bgp-evpn BGP Ethernet VPN (EVPN) Interface-less • bgp-evpn-iff BGP Ethernet VPN (EVPN) Interface-ful • bgp-evpn-ifl-host BGP Ethernet VPN (EVPN) Interface-less Host • bgp-ipvpn BGP IP VPN • bgp-label BGP labeled-unicast • dhcp IP (default) route added by DHCP. • gribi A gRIBI route • host A host route • isis IS-IS • local A directly connected route • linux IP route added by the linux kernel.

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- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/bgp-rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

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backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-*

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with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

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next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms Supported on all platforms

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-*

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with-zone | ipv6-address-with-zone) origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	Supported on all platforms

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

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rib-in-out

Description	Enter the rib-in-out context Container for BGP routes learned and advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out
Tree	rib-in-out
Configurable	False
Platforms	Supported on all platforms

rib-in-post

Description	Enter the rib-in-post context Container for the post-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor

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(ipv4-address-with-zone | ipv6-address-with-zone) path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms Supported on all platforms

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms Supported on all platforms

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

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as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*
Tree	origin-validation-state
Options	• valid Route matches a ROA entry with correct prefix-length and origin AS

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- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*
Tree	reuse-time
Units	seconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*
Tree	stale-route

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Configurable	False
Platforms	Supported on all platforms

tie-break-reason *keyword*

Description	Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*
Tree	tie-break-reason
Options	• unknown • none • origin • as-path-length • next-hop-cost • med • local-pref • aggregate • originator-id • cluster-list • extended-community • aigp • missing-attribute • rtm-pref • owner • eigp-labeled • vpn-route • ebgp-route • peer-ip • local-peer • multi-path • vpn-rd • next-hop-type • invalid-route • origin-validation

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- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	Supported on all platforms

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

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The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms Supported on all platforms

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route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv4 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

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attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv4-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-flowspec-v1

Description

Enter the ipv6-flowspec-v1 context

Container for RIB state of ipv6-flowspec-v1 routes

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1

Tree

ipv6-flowspec-v1

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description

Enter the local-rib context

Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all IPv6 routes learned from all BGP neighbors

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib

Tree

local-rib

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description List of ipv6-flowspec-v1 routes. Keys to route include prefix, neighbor, origin and path-id. If route is imported route from other local protocols, neighbor IP address will be zero. If route is selected to be advertised to peer by local BGP speaker's decision making process, then the origin will be set to 'bgp'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-protocol *identityref*

Description If the route was imported from another protocol, this is the protocol name.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route

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- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components destination-port *string*

Tree	destination-port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description	Destination prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components destination-prefix *string*
Tree	destination-prefix
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description	DSCP / traffic-class component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components dscp-mark *string*
Tree	dscp-mark
String Length	0 to 256

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description	IPv6 flow label component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components flow-label *string*
Tree	flow-label
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description	Fragment component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components fragment *string*
Tree	fragment
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description ICMP code component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components icmp-code *string*

Tree icmp-code

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description ICMP type component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components icmp-type *string*

Tree icmp-type

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-protocol *string*

Description IP protocol / next-header (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components packet-length *string*

Tree packet-length

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components port *string*
Tree	port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description	Source port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components source-port *string*
Tree	source-port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description	Source prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components source-prefix *string*
Tree	source-prefix

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description	TCP flags component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-components tcp-flags *string*
Tree	tcp-flags
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description	FlowSpec NLRI raw data as hex string chunks.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-raw *string*
Tree	nlri-raw
String Length	1 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*
Tree	reuse-time
Units	seconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*
Tree	stale-route

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer

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- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 local-rib route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out

Tree rib-in-out

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description	Enter the rib-in-post context Container for the post-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of ipv6-flowspec-v1 routes in the RIB-IN, after import-policy modification.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*

Tree destination-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description Destination prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*

Tree destination-prefix

String Length 0 to 256

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description DSCP / traffic-class component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*

Tree dscp-mark

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*

Tree flow-label

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description Fragment component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*

Tree fragment

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description ICMP code component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*

Tree icmp-code

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmp-type *string*

Description ICMP type component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*

Tree icmp-type

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description IP protocol / next-header (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*
Tree	packet-length
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description	Port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*
Tree	port
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description	Source port component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*
Tree	source-port

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description	Source prefix component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*
Tree	source-prefix
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description	TCP flags component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*
Tree	tcp-flags
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*

Tree nlri-raw

String Length 1 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost

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- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of ipv6-flowspec-v1 routes in the RIB-IN, before import-policy modification.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*

Tree destination-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description Destination prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*

Tree destination-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-mark *string*

Description DSCP / traffic-class component (decoded operands).

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*

Tree dscp-mark

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*

Tree flow-label

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description Fragment component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*

Tree fragment

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description	ICMP code component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*
Tree	icmp-code
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description	ICMP type component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*
Tree	icmp-type
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description IP protocol / next-header (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*

Tree ip-protocol

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description Packet length component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*

Tree packet-length

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*

Tree port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description Source port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*

Tree source-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-prefix *string*

Description Source prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*

Tree source-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description TCP flags component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*

Tree tcp-flags

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-in-pre route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*
Tree	nlri-raw
String Length	1 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of ipv6-flowspec-v1 routes in the RIB-OUT, after export-policy modification.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded flowspec nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-components

Description Enter the nlri-components context

Decoded FlowSpec NLRI operands: one leaf per RFC 8955 / 8956 component type (empty when absent). Raw NLRI hex is only at route level (flowspec-v1-common nlri-raw).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components

Tree nlri-components

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *string*

Description Destination port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-port *string*

Tree destination-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-prefix *string*

Description Destination prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components destination-prefix *string*

Tree destination-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dscp-mark *string*

Description DSCP / traffic-class component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components dscp-mark *string*

Tree dscp-mark

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *string*

Description IPv6 flow label component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components flow-label *string*

Tree flow-label

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *string*

Description Fragment component (decoded operands).

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components fragment *string*
Tree	fragment
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-code *string*

Description	ICMP code component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-code *string*
Tree	icmp-code
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-type *string*

Description	ICMP type component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components icmp-type *string*
Tree	icmp-type

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String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-protocol *string*

Description	IP protocol / next-header (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components ip-protocol *string*
Tree	ip-protocol
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-length *string*

Description	Packet length component (decoded operands).
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components packet-length *string*
Tree	packet-length
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *string*

Description Port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components port *string*

Tree port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *string*

Description Source port component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-port *string*

Tree source-port

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-prefix *string*

Description Source prefix component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components source-prefix *string*

Tree source-prefix

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description TCP flags component (decoded operands).

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-components tcp-flags *string*

Tree tcp-flags

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-raw *string*

Description FlowSpec NLRI raw data as hex string chunks.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 rib-in-out rib-out-post route crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-raw *string*

Tree nlri-raw

String Length 1 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

ipv6-labeled-unicast

Description Enter the ipv6-labeled-unicast context

Container for RIB state of labeled IPv6-unicast routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast

Tree ipv6-labeled-unicast

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description Enter the local-rib context

Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all label-IPv4 routes learned from all BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib

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Tree	local-rib
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description	List of label-IPv6 routes in the local RIB.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-protocol *identityref*

Description If the route was imported from another protocol, this is the protocol name.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

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IP route added by the linux kernel.

- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/bgp-rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description Indicates true if FIB programming failed

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*

Tree fib-programming-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-

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length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description	Received MPLS label value
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* received-mpls-label *(number | keyword)*
Tree	received-mpls-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled

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- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description	Enter the rib-in-out context Container for BGP routes learned and advertised to BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out
Tree	rib-in-out
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description	Enter the rib-in-post context Container for the post-import-policy version of BGP routes learned from BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of label-IPv6 routes

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

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Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

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Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL

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- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown

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- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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unused-weight-only *boolean*

Description	Indicates true if the route is unused, but being used for weight calculation
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of label-IPv6 routes.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

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Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

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Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of label-IPv6 routes.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-mpls-label *(number | keyword)*

Description	Advertised MPLS label value
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* advertised-mpls-label *(number | keyword)*
Tree	advertised-mpls-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL

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- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

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- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description Enter the ipv6-unicast context

Container for RIB state of IPv6-unicast routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast

Tree ipv6-unicast

Configurable False

Platforms Supported on all platforms

local-rib

Description Enter the local-rib context

Container for local RIB, containing all imported routes from other protocols plus the post-import-policy version of all IPv4 routes learned from all BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib

Tree local-rib

Configurable False

Platforms Supported on all platforms

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route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description	List of IPv6 routes in the local RIB.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	Supported on all platforms

origin-protocol *identityref*

Description	If the route was imported from another protocol, this is the protocol name.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Options	• aggregate Locally configured aggregate route • arp-nd

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IP route added by ARP ND.

- bgp
  Border Gateway Protocol version 4
- bgp-evpn
  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff
  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host
  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn
  BGP IP VPN
- bgp-label
  BGP labeled-unicast
- dhcp
  IP (default) route added by DHCP.
- gribi
  A gRIBI route
- host
  A host route
- isis
  IS-IS
- local
  A directly connected route
- linux
  IP route added by the linux kernel.
- ndk1
  Route added by an agent application using the NDK
- ndk2
  Route added by an agent application using the NDK
- ospfv2
  OSPFv2
- ospfv3
  OSPFv3
- sr-submgmt
  Subscriber-management route
- srv6

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Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms Supported on all platforms

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best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	Supported on all platforms

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invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms Supported on all platforms

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms Supported on all platforms

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms Supported on all platforms

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-

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length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms Supported on all platforms

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route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description	The amount of time remaining before a suppressed route can be used again This reads 0 if the route is not current suppressed.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*
Tree	reuse-time
Units	seconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref

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- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast local-rib route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out

Tree rib-in-out

Configurable False

Platforms Supported on all platforms

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv6 routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	Supported on all platforms

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	Supported on all platforms

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms Supported on all platforms

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	Supported on all platforms

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	Supported on all platforms

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

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Tree	cluster-loop
Configurable	False
Platforms	Supported on all platforms

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	Supported on all platforms

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor

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(ipv4-address-with-zone | ipv6-address-with-zone) path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	Supported on all platforms

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor

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(ipv4-address-with-zone | ipv6-address-with-zone) path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree	next-hop-unresolved
Configurable	False
Platforms	Supported on all platforms

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	Supported on all platforms

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as

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Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

origin-validation-state *keyword*

Description

RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree

origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*
Tree	flap-count
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms Supported on all platforms

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none

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- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms Supported on all platforms

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor

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(ipv4-address-with-zone | ipv6-address-with-zone) path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms Supported on all platforms

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms Supported on all platforms

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre

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Tree	rib-in-pre
Configurable	False
Platforms	Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of IPv6 routes.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms Supported on all platforms

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms Supported on all platforms

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-in-pre route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

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No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms Supported on all platforms

route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of IPv6 routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description Enter the prefix context

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	Supported on all platforms

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

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origin-validation-state *keyword*

Description

RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* ipv6-unicast rib-in-out rib-out-post route prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree

origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv4-unicast

Description

Enter the l3vpn-ipv4-unicast context

Container for RIB state of VPN-IPv4 unicast routes.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast

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Tree	l3vpn-ipv4-unicast
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description	Enter the local-rib context Container for local RIB Includes the post import-policy RIB-INs corresponding to VPN-IPv4 routes received from default net-instance BGP peers (post import-policy means after processing by the BGP import policy attached to the default net-instance peer and after processing by the vrf-import policy of importing IP VRF network instances) plus the post vrf-export policy “imported” routes from local IP-VRF network instances.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib
Tree	local-rib
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv4 unicast routes in the local RIB.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/bgp-rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-looped-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*

Tree dpath-looped-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 |*

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route-distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

imported-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*

Tree imported-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-rule-programming-failed *boolean*

Description Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

Tree flowspec-rule-programming-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

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The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

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This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route

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- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 |*

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route-distinguisher-type-1 | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast local-rib route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out

Tree rib-in-out

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv4 unicast routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-*

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	distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dpath-looped-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*

Tree dpath-looped-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

imported-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*

Tree imported-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* internal-tags *string*

Tree internal-tags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2*

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| *route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

Tree last-modified

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description The last external AS to advertise the route into the local AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree neighbor-as

Range 1 to 4294967295

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description	Received MPLS label value
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*
Tree	received-mpls-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin

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- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*
Tree	unused-weight-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description	Indicates true if the route is being used for forwarding.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv4 unicast routes learned from BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0	route-distinguisher-type-1	route-distinguisher-type-2*

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| *route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description Enter the prefix context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-looped-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*
Tree	dpath-looped-ip-vrf-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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imported-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*

Tree imported-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix

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- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post

Tree rib-out-post

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv4 unicast routes.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2*

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| *route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-mpls-label *(number | keyword)*

Description Advertised MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-*

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address-with-zone | *ipv6-address-with-zone)* path-id *number* advertised-mpls-label *(number* | *keyword)*

Tree advertised-mpls-label

Range 16 to 1048575

Options
- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv6-unicast

Description Enter the l3vpn-ipv6-unicast context

Container for RIB state of VPN-IPv6 unicast routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast

Tree l3vpn-ipv6-unicast

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description Enter the local-rib context

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Container for local RIB

Includes the post import-policy RIB-INs corresponding to VPN-IPv6 routes received from default net-instance BGP peers (post import-policy means after processing by the BGP import policy attached to the default net-instance peer and after processing by the vrf-import policy of importing IP VRF network instances) plus the post vrf-export policy “imported” routes from local IP-VRF network instances.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib

Tree local-rib

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of VPN-IPv6 unicast routes in the local RIB.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description Enter the prefix context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/bgp-rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

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Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-looped-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*
Tree	dpath-looped-ip-vrf-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

imported-ip-vrf-network-instances *reference*

Description List of IP-VRF network instances that imported the route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*

Tree imported-ip-vrf-network-instances

Reference network-instance name *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-*

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type-2b) prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description Indicates true if the action in the flowspec route's extended communities is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

Tree flowspec-unsupported-action

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*

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Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*
Tree	origin-validation-state
Options	• valid

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Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description Received MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*

Tree received-mpls-label

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Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate

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- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast local-rib route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out

Tree rib-in-out

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post

Tree rib-in-post

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv6 unicast routes
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-looped-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*
Tree	dpath-looped-ip-vrf-network-instances
Reference	network-instance name *string*

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

imported-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances that imported the route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*
Tree	imported-ip-vrf-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

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invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description	RPKI origin validation state of this BGP route Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA

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entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description	Received MPLS label value
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* received-mpls-label *(number | keyword)*
Tree	received-mpls-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref

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- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre

Tree rib-in-pre

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of VPN-IPv6 unicast routes learned from BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-looped-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances in which a loop due to the D-PATH attribute is detected
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* dpath-looped-ip-vrf-network-instances *reference*
Tree	dpath-looped-ip-vrf-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

imported-ip-vrf-network-instances *reference*

Description	List of IP-VRF network instances that imported the route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* imported-ip-vrf-network-instances *reference*
Tree	imported-ip-vrf-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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origin-validation-state *keyword*

Description

RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree

origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

- disabled

  Origin validation is not enabled for this route

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-mpls-label *(number | keyword)*

Description

Received MPLS label value

Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-in-pre route route-distinguisher *(route-*

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distinguisher-type-0 | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number* received-mpls-label *(number* | *keyword)*

Tree received-mpls-label

Range 16 to 1048575

Options
- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Description List of VPN-IPv6 unicast routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0* | *route-distinguisher-type-1* | *route-distinguisher-type-2* | *route-distinguisher-type-2b)* prefix *(ipv4-prefix* | *ipv6-prefix)* neighbor *(ipv4-address-with-zone* | *ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-mpls-label *(number | keyword)*

Description Advertised MPLS label value

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* advertised-mpls-label *(number | keyword)*

Tree advertised-mpls-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description RPKI origin validation state of this BGP route

Determined by lookup of the route prefix and origin AS against the local ROA database: valid - prefix matches a ROA with correct origin AS and prefix-length within the allowed range invalid - prefix matches a ROA but origin AS or prefix-length violates the ROA constraints not-found - no matching ROA entry exists for this prefix disabled - origin validation is not enabled for this neighbor AFI-SAFI

The state is computed at route receipt and updated whenever the ROA database changes in a way that affects this prefix. BGP will not publish this state for address families where origin validation is not supported.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rib-in-out rib-out-post route route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)* prefix *(ipv4-prefix | ipv6-prefix)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* origin-validation-state *keyword*

Tree origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS
- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match
- not-found

  No matching ROA entry exists for this prefix
- disabled

  Origin validation is not enabled for this route

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-state

Description Enter the link-state context

Container for RIB state of link-state routes

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state

Tree link-state

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rib

Description Enter the local-rib context

Link-State routes that are selected as the best route. This includes routes imported from other protocols.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib

Tree local-rib

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Description List of Link-State routes. Keys to route include prefix, neighbor, origin and path-id. If route is imported route from other local protocols, neighbor IP address will be zero. If route is selected to be advertised to peer by local BGP speaker's decision making process, then the origin will be set to 'bgp'.

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-type *keyword*

Description Type of the link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- node
- link
- ipv4-topology-prefix
- ipv6-topology-prefix
- sr-policy-candidate-path
- srv6-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-length *number*

Description	Length of the encoded link-state nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description	Encoded link-state nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-protocol *identityref*

Description	If the route was imported from another protocol, this is the protocol name.

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Context

network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

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OSPFv2

- ospfv3

  OSPFv3

- sr-submgmt

  Subscriber-management route

- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason domain-path-loop *boolean*

Tree domain-path-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-action *boolean*

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Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-string *string*

Description	Link-state nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* nlri-string *string*

Tree	nlri-string
String Length	80
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	30

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping
Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description	Set to true if the route is stale due to BGP graceful restart.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* stale-route *boolean*
Tree	stale-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled

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- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state local-rib route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-protocol *identityref* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description	Enter the rib-in-out context Container for BGP routes learned and advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out
Tree	rib-in-out
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description	Enter the rib-in-post context Container for the post-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding node link-state info

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-type *keyword*

Description Type of the link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Options

- node
- link
- ipv4-topology-prefix
- ipv6-topology-prefix
- sr-policy-candidate-path
- srv6-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-length *number*

Description Length of the encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length

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number nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description Indicates true if dynamic-label-block has no more free labels

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

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Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length

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number nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*

Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-string *string*

Description	Link-state nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-string *string*
Tree	nlri-string
String Length	80
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	30

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description	Enter the route-flap-damping context

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Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

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Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled

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- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding node link-state info

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-type *keyword*

Description Type of the link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Options

- node
- link
- ipv4-topology-prefix
- ipv6-topology-prefix
- sr-policy-candidate-path
- srv6-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-length *number*

Description Length of the encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-string *string*

Description	Link-state nlri.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-in-pre route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-string *string*
Tree	nlri-string
String Length	80
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	30

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rib-out-post

Description Enter the rib-out-post context

Container for the post-export-policy version of BGP routes advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post

Tree rib-out-post

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of link-state routes in the RIB-OUT, after export-policy modification

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-type *keyword*

Description Type of the link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Options

- node
- link
- ipv4-topology-prefix
- ipv6-topology-prefix
- sr-policy-candidate-path

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- srv6-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crc *number*

Description CRC value calculated over the encoded nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length of the encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri

Description Encoded link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlri-string *string*

Description Link-state nlri.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* link-state rib-in-out rib-out-post route nlri-type *keyword* crc *number* nlri-length *number* nlri neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* nlri-string *string*

Tree nlri-string

String Length 80

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 30

route-target

Description Enter the route-target context

Container for RIB state of RTC routes.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target

Tree route-target

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out

Tree rib-in-out

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post

Tree rib-in-post

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of RTC routes in the RIB-IN, after import-policy modification.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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origin-as *number*

Description The origin AS of the RTC route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target-prefix *string*

Description The RTC prefix in the format number1:number2/length, where number1 is an IPv4 address or a 2-byte ASN or a 4-byte ASN, number2 is a 2-byte or 4-byte administrative value and length is a number of bits between 0 and 96

The default RTC prefix is represented by 0:0/0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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backup-route *boolean*

Description Set to true if the route is being used as backup path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*

Tree backup-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description Set to true if the route is the BGP best path for the prefix.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*

Tree best-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

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Tree	fib-disabled
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*

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Tree	fib-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description Indicates true if the nlri match in the flowspec route is unsupported

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*

Tree flowspec-unsupported-match

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description Indicates true if the destination prefix in the flowspec route is invalid

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*

Tree flowspec-validation-failed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

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Tree	rejected-route
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description Set to true if the route is marked for deletion.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*

Tree pending-delete

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description	The number of times that the route flapped
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string*

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6,

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7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale

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- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre

Tree rib-in-pre

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description List of RTC routes in the RIB-IN, before import-policy modification.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description The origin AS of the RTC route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target-prefix *string*

Description The RTC prefix in the format number1:number2/length, where number1 is an IPv4 address or a 2-byte ASN or a 4-byte ASN, number2 is a 2-byte or 4-byte administrative value and length is a number of bits between 0 and 96

The default RTC prefix is represented by 0:0/0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-in-pre route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone \| ipv6-address-with-zone)* path-id *number*

Description	List of RTC routes in the RIB-OUT, after export-policy modification.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description The origin AS of the RTC route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target-prefix *string*

Description The RTC prefix in the format number1:number2/length, where number1 is an IPv4 address or a 2-byte ASN or a 4-byte ASN, number2 is a 2-byte or 4-byte administrative value and length is a number of bits between 0 and 96

The default RTC prefix is represented by 0:0/0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* route-target rib-in-out rib-out-post route origin-as *number* route-target-prefix *string* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-ipv4

Description Enter the srte-policy-ipv4 context

Container for RIB state of SR policy candidate paths with IPv4 endpoint addresses

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4

Tree srte-policy-ipv4

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description Enter the rib-in-out context

Container for BGP routes learned and advertised to BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out

Tree rib-in-out

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description Enter the rib-in-post context

Container for the post-import-policy version of BGP routes learned from BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post

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Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding SR policy candidate paths towards IPv4 endpoints
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distinguisher *number*

Description	Unique identifier of the policy candidate path in the context of <color, endpoint> tuple
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color of the SRTE policy, used to steer traffic into the tunnel
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description	The endpoint IPv4 or IPv6 address of the SR policy
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-disabled *boolean*

Description Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*

Tree fib-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*

Tree group-best

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description Internal route tag written in the route/tunnel tables or BGP rib

The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*

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Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

invalid-reason

Description	Enter the invalid-reason context
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason
Tree	invalid-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description	Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*
Tree	as-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cluster-loop *boolean*

Description	Indicates true if the BGP route has a cluster-list loop.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*
Tree	cluster-loop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*
Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number*

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endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*

Tree label-allocation-failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unresolved *boolean*

Description Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*

Tree next-hop-unresolved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description Indicates true if the route was rejected by an import policy.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*

Tree rejected-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update

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received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.

Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-flap-damping

Description Enter the route-flap-damping context

Route flap damping state

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

Tree route-flap-damping

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*

Tree decayed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*

Tree figure-of-merit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description	The amount of time remaining before a suppressed route can be used again This reads 0 if the route is not current suppressed.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*
Tree	reuse-time
Units	seconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description	Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*
Tree	suppressed
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list

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- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled
- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*

Tree used-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description Indicates true if the route is valid.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*

Tree valid-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description Enter the rib-in-pre context

Container for the pre-import-policy version of BGP routes learned from BGP neighbors

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre

Tree rib-in-pre

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding SR policy candidate paths towards IPv4 endpoints
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distinguisher *number*

Description	Unique identifier of the policy candidate path in the context of <color, endpoint> tuple
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color of the SRTE policy, used to steer traffic into the tunnel
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description The endpoint IPv4 or IPv6 address of the SR policy

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of SR policy routes in the RIB-OUT, after export-policy modification
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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distinguisher *number*

Description	Unique identifier of the policy candidate path in the context of <color, endpoint> tuple
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color of the SRTE policy, used to steer traffic into the tunnel
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description	The endpoint IPv4 or IPv6 address of the SR policy
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv4 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-ipv6

Description Enter the srte-policy-ipv6 context

Container for RIB state of SR policy candidate paths with IPv6 endpoint addresses

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6
Tree	srte-policy-ipv6
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-out

Description	Enter the rib-in-out context Container for BGP routes learned and advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out
Tree	rib-in-out
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-post

Description	Enter the rib-in-post context Container for the post-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post
Tree	rib-in-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding SR policy candidate paths towards IPv6 endpoints
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number*

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endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Tree route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distinguisher *number*

Description Unique identifier of the policy candidate path in the context of <color, endpoint> tuple

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description Color of the SRTE policy, used to steer traffic into the tunnel

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description The endpoint IPv4 or IPv6 address of the SR policy

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-route *boolean*

Description	Set to true if the route is being used as backup path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* backup-route *boolean*
Tree	backup-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-route *boolean*

Description	Set to true if the route is the BGP best path for the prefix.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* best-route *boolean*
Tree	best-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-disabled *boolean*

Description	Set to true if the route cannot be installed in the FIB via explicit configuration or other conditions
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* fib-disabled *boolean*
Tree	fib-disabled
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-best *boolean*

Description	Set to true if the route is the best BGP route amongst all routes received from one particular neighbor AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* group-best *boolean*
Tree	group-best
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

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invalid-reason

Description Enter the invalid-reason context

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason

Tree invalid-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-loop *boolean*

Description Indicates true if the BGP route has an AS path loop that exceeds the configured threshold.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason as-loop *boolean*

Tree as-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cluster-loop *boolean*

Description Indicates true if the BGP route has a cluster-list loop.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason cluster-loop *boolean*

Tree cluster-loop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-path-loop *boolean*

Description	Indicates true if the route has a D-PATH with a domain-id that matches one of the local domain-ids
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason domain-path-loop *boolean*
Tree	domain-path-loop
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming-failed *boolean*

Description	Indicates true if FIB programming failed
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason fib-programming-failed *boolean*
Tree	fib-programming-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-rule-programming-failed *boolean*

Description	Indicates true if the programming of the rule derived from the flowspec route failed at the ACL manager
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-rule-programming-failed *boolean*

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Tree	flowspec-rule-programming-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-action *boolean*

Description	Indicates true if the action in the flowspec route's extended communities is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-action *boolean*
Tree	flowspec-unsupported-action
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-unsupported-match *boolean*

Description	Indicates true if the nlri match in the flowspec route is unsupported
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-unsupported-match *boolean*
Tree	flowspec-unsupported-match
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flowspec-validation-failed *boolean*

Description	Indicates true if the destination prefix in the flowspec route is invalid
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason flowspec-validation-failed *boolean*
Tree	flowspec-validation-failed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-allocation-failed *boolean*

Description	Indicates true if dynamic-label-block has no more free labels
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason label-allocation-failed *boolean*
Tree	label-allocation-failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-unresolved *boolean*

Description	Indicates true if the BGP route has a BGP next-hop that cannot be resolved to an outgoing interface.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason next-hop-unresolved *boolean*
Tree	next-hop-unresolved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-route *boolean*

Description	Indicates true if the route was rejected by an import policy.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* invalid-reason rejected-route *boolean*
Tree	rejected-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-modified *string*

Description	Time of the last modification of the route stored in the BGP RIB. For a route learned from a BGP neighbor the initial value is the same as last-update received. If an import policy later changed some attribute of the route last-modified would be updated to reflect the time of this change.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* last-modified *string*
Tree	last-modified
String Length	20 to 32

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-as *number*

Description	The last external AS to advertise the route into the local AS
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-delete *boolean*

Description	Set to true if the route is marked for deletion.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* pending-delete *boolean*
Tree	pending-delete
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-flap-damping

Description	Enter the route-flap-damping context Route flap damping state
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping

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Tree	route-flap-damping
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decayed *boolean*

Description	Reads true when the current FOM for a non-withdrawn route is greater than 0 but less than the suppress-threshold
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping decayed *boolean*
Tree	decayed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

figure-of-merit *number*

Description	The current accumulated (and decayed) penalty value that determines whether the route is suppressed or not
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping figure-of-merit *number*
Tree	figure-of-merit
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flap-count *number*

Description The number of times that the route flapped

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping flap-count *number*

Tree flap-count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history *boolean*

Description Reads true when the current FOM for a recently withdrawn route is greater than 0

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping history *boolean*

Tree history

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-time *number*

Description The amount of time remaining before a suppressed route can be used again

This reads 0 if the route is not current suppressed.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping reuse-time *number*

Tree reuse-time

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description Reads true when a non-withdrawn route is suppressed because FOM > suppress-threshold

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* route-flap-damping suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stale-route *boolean*

Description Set to true if the route is stale due to BGP graceful restart.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* stale-route *boolean*

Tree stale-route

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tie-break-reason *keyword*

Description Indicates the reason why a BGP route is sorted behind the next best route. The BGP best path displays a value of 'none'.

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* tie-break-reason *keyword*

Tree tie-break-reason

Options

- unknown
- none
- origin
- as-path-length
- next-hop-cost
- med
- local-pref
- aggregate
- originator-id
- cluster-list
- extended-community
- aigp
- missing-attribute
- rtm-pref
- owner
- eigp-labeled

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- vpn-route
- ebgp-route
- peer-ip
- local-peer
- multi-path
- vpn-rd
- next-hop-type
- invalid-route
- origin-validation
- long-live-gr-stale
- default-originate
- fib-install-disabled
- peer-router-id
- path-identifier
- domain-path-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-weight-only *boolean*

Description Indicates true if the route is unused, but being used for weight calculation

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* unused-weight-only *boolean*

Tree unused-weight-only

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-route *boolean*

Description Indicates true if the route is being used for forwarding.

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* used-route *boolean*
Tree	used-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-route *boolean*

Description	Indicates true if the route is valid.
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* valid-route *boolean*
Tree	valid-route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-in-pre

Description	Enter the rib-in-pre context Container for the pre-import-policy version of BGP routes learned from BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre
Tree	rib-in-pre
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of received BGP routes encoding SR policy candidate paths towards IPv6 endpoints
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distinguisher *number*

Description	Unique identifier of the policy candidate path in the context of <color, endpoint> tuple
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color of the SRTE policy, used to steer traffic into the tunnel
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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endpoint *(ipv4-address | ipv6-address)*

Description	The endpoint IPv4 or IPv6 address of the SR policy
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description	Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

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Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-in-pre route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*
Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rib-out-post

Description	Enter the rib-out-post context Container for the post-export-policy version of BGP routes advertised to BGP neighbors
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post
Tree	rib-out-post
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Description	List of SR policy routes in the RIB-OUT, after export-policy modification
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Tree	route
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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distinguisher *number*

Description	Unique identifier of the policy candidate path in the context of <color, endpoint> tuple
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color of the SRTE policy, used to steer traffic into the tunnel
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description	The endpoint IPv4 or IPv6 address of the SR policy
Context	network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

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Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Path identifier of the BGP route

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/ attr-sets/attr-set/index

Context network-instance name *string* bgp-rib afi-safi afi-safi-name *identityref* srte-policy-ipv6 rib-in-out rib-out-post route distinguisher *number* color *number* endpoint *(ipv4-address | ipv6-address)* neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-id *number* attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-sets

Description Enter the attr-sets context

Container for BGP RIB path attribute sets that can be shared by one or more BGP routes.

Context network-instance name *string* bgp-rib attr-sets

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Tree	attr-sets
Configurable	False
Platforms	Supported on all platforms

attr-set index *number*

Description	List of attribute sets.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Tree	attr-set
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	A unique internal identifier of the attribute set.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	Supported on all platforms

aggregator

Description	Enter the aggregator context
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* aggregator
Tree	aggregator
Configurable	False
Platforms	Supported on all platforms

address *(ipv4-address | ipv6-address)*

Description	The router ID of the BGP router that formed the aggregate route.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* aggregator address *(ipv4-address | ipv6-address)*
Tree	address
Configurable	False
Platforms	Supported on all platforms

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as-number *number*

Description	The 2byte or 4byte AS number of the router that formed the aggregate route.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* aggregator as-number *number*
Tree	as-number
Range	1 to 4294967295
Configurable	False
Platforms	Supported on all platforms

aigp *number*

Description	The value in the AIGP path attribute.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* aigp *number*
Tree	aigp
Configurable	False
Platforms	Supported on all platforms

as-path

Description	Enter the as-path context A container for the AS path attribute of the attribute set.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* as-path
Tree	as-path
Configurable	False
Platforms	Supported on all platforms

segment as-path-index *number*

Description	A list of segments. Each segment has a type and a list of one or more AS numbers.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* as-path segment as-path-index *number*
Tree	segment
Configurable	False
Platforms	Supported on all platforms

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as-path-index *number*

Description	RIB attribute AS Path index
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* as-path segment as-path-index *number*
Configurable	False
Platforms	Supported on all platforms

member *number*

Description	A list of AS numbers (each of which is a 2byte-ASN or a 4byte-ASN) that belong to the AS path segment.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* as-path segment as-path-index *number* member *number*
Tree	member
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	The type of the AS path segment.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* as-path segment as-path-index *number* type *keyword*
Tree	type
Options	• as-set • as-sequence • as-confed-sequence • as-confed-set
Configurable	False
Platforms	Supported on all platforms

atomic-aggregate *boolean*

Description	Set to true to indicate the presence of the ATOMIC_AGGREGATE path attribute.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* atomic-aggregate *boolean*

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Tree	atomic-aggregate
Configurable	False
Platforms	Supported on all platforms

cluster-list *(ipv4-address | ipv6-address)*

Description	The list of IPv4 addresses in the CLUSTER_LIST path attribute.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* cluster-list *(ipv4-address | ipv6-address)*
Tree	cluster-list
Configurable	False
Platforms	Supported on all platforms

communities

Description	Enter the communities context Container for different types of BGP communities
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities
Tree	communities
Configurable	False
Platforms	Supported on all platforms

community *string*

Description	List of standard 4-byte community values in the COMMUNITY path attribute. Each should be displayed in the format <0..65355>:<0..65535>
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities community *string*
Tree	community
Configurable	False
Platforms	Supported on all platforms

ext-community *string*

Description	List of extended 8-byte community values in the EXT_COMMUNITY path attribute.

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Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities ext-community *string*
Tree	ext-community
Configurable	False
Platforms	Supported on all platforms

ext-community-raw-format *string*

Description	List of extended 8-byte community values in the EXT_COMMUNITY path attribute, output in hex format
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities ext-community-raw-format *string*
Tree	ext-community-raw-format
Configurable	False
Platforms	Supported on all platforms

ipv6-ext-community *string*

Description	List of ipv6-extended 20-byte community values in the COMMUNITY path attribute.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities ipv6-ext-community *string*
Tree	ipv6-ext-community
Configurable	False
Platforms	Supported on all platforms

large-community *string*

Description	List of large 12-byte community values in the LARGE_ COMMUNITY path attribute. Each should be displayed in the format: <0..4294967295>:<0..4294967295>:< 0..4294967295>
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* communities large-community *string*
Tree	large-community
String Length	1 to 72
Configurable	False
Platforms	Supported on all platforms

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domain-path

Description Enter the domain-path context

Sequence of domain segments in the propagation path of the route

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path

Tree domain-path

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-segment sequence-id *number*

Description List of domain segments in the propagation path of the route

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number*

Tree domain-segment

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description The sequence number of the domain segment, starting with 0 as the first domain segment in the propagation path

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number*

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain sequence-id *number*

Description	Enter the domain list instance
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number* domain sequence-id *number*
Tree	domain
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description	The sequence number of the domain, starting with 0 as the first domain in the segment
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number* domain sequence-id *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-id *string*

Description The domain identifier

Composed of a 4-octet global administrator field followed by a 2-octet local administrator field, in the format: global-admin:local:admin

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number* domain sequence-id *number* domain-id *string*

Tree domain-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inter-subnet-forwarding-safi-type *number*

Description Inter-Subnet Forwarding SAFI type in which a route was received, before the route is re-exported into a different domain

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number* domain sequence-id *number* inter-subnet-forwarding-safi-type *number*

Tree inter-subnet-forwarding-safi-type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-segment-length *number*

Description Number of domains in a segment

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* domain-path domain-segment sequence-id *number* domain-segment-length *number*

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Tree	domain-segment-length
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-state

Description	Enter the link-state context Container for link-state attributes.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* link-state
Tree	link-state
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr *string*

Description	List of link-state attribute strings.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* link-state attr *string*
Tree	attr
String Length	80
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	200

local-pref *number*

Description	The value of the LOCAL_PREF path attribute.

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Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* local-pref *number*
Tree	local-pref
Configurable	False
Platforms	Supported on all platforms

med *number*

Description	The value of the MULTI_EXIT_DISC path attribute.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* med *number*
Tree	med
Configurable	False
Platforms	Supported on all platforms

next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	The IPv4 or IPv6 address of the BGP next-hop (extracted from the NEXT_HOP field of the UPDATE or the MP_REACH_NLRI next-hop).
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

origin *keyword*

Description	The value of the ORIGIN path attribute
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* origin *keyword*
Tree	origin
Options	• igp • egp • incomplete
Configurable	False
Platforms	Supported on all platforms

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originator-id *(ipv4-address | ipv6-address)*

Description	The address in the ORIGINATOR_ID attribute added by a route reflector.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* originator-id *(ipv4-address | ipv6-address)*
Tree	originator-id
Configurable	False
Platforms	Supported on all platforms

pmsi-tunnel

Description	Enter the pmsi-tunnel context A container for the Provider Multicast Service Interface Tunnel Attribute (PTA) of the attribute set.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel
Tree	pmsi-tunnel
Configurable	False
Platforms	Supported on all platforms

flags

Description	Enter the flags context A container for the PTA Flags
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags
Tree	flags
Configurable	False
Platforms	Supported on all platforms

assisted-replication-type *keyword*

Description	The value of the assisted-replication role type.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags assisted-replication-type *keyword*
Tree	assisted-replication-type
Options	• none

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- ar-replicator
- ar-leaf
- reserved

Configurable False

Platforms Supported on all platforms

leaf-information-required *boolean*

Description The value of the Leaf Information Required (LIR) flag.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags leaf-information-required *boolean*

Tree leaf-information-required

Configurable False

Platforms Supported on all platforms

pruned-flood-list

Description Enter the pruned-flood-list context

A container for the optimized ingress replication pruned flood list flags.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags pruned-flood-list

Tree pruned-flood-list

Configurable False

Platforms Supported on all platforms

broadcast-multicast *keyword*

Description The value of the broadcast-multicast flag.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags pruned-flood-list broadcast-multicast *keyword*

Tree broadcast-multicast

Options

- 0
- 1

Configurable False

Platforms Supported on all platforms

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unknown-unicast *keyword*

Description The value of the unknown-unicast flag.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel flags pruned-flood-list unknown-unicast *keyword*

Tree unknown-unicast

Options
- 0
- 1

Configurable False

Platforms Supported on all platforms

label

Description Enter the label context

The encoded label value and type in the PMSI Tunnel Attribute

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

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value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel label value-type *keyword*

Tree value-type

Options
- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms Supported on all platforms

tunnel-endpoint *(ipv4-address | ipv6-address)*

Description The value of the tunnel-endpoint in the PMSI Tunnel Attribute.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel tunnel-endpoint *(ipv4-address | ipv6-address)*

Tree tunnel-endpoint

Configurable False

Platforms Supported on all platforms

tunnel-type *keyword*

Description The value of the tunnel-type in the PMSI Tunnel Attribute

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel tunnel-type *keyword*

Tree tunnel-type

Options
- no-tunnel
- rsvp-te-p2mp
- mldp-p2mp
- pim-ssm
- pim-sm
- bidir-pim
- ingress-replication
- mldp-mp2mp
- assisted-replication

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- bier

Configurable False

Platforms Supported on all platforms

pmsi-tunnel-mldp

Description Enter the pmsi-tunnel-mldp context

A container for the Provider Multicast Service Interface Tunnel Attribute (PTA) for mLDP.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp

Tree pmsi-tunnel-mldp

Configurable False

Platforms Supported on all platforms

flags

Description Enter the flags context

A container for the PTA Flags

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp flags

Tree flags

Configurable False

Platforms Supported on all platforms

leaf-information-required *boolean*

Description The value of the Leaf Information Required (LIR) flag.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp flags leaf-information-required *boolean*

Tree leaf-information-required

Configurable False

Platforms Supported on all platforms

label

Description Enter the label context

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The encoded label value and type in the PMSI Tunnel Attribute

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp label

Tree label

Configurable False

Platforms Supported on all platforms

value *number*

Description The value of the label field

If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp label value *number*

Tree value

Range 0 to 16777215

Configurable False

Platforms Supported on all platforms

pmsi-tunnel-attribute

Description Enter the pmsi-tunnel-attribute context

This container the pmsi tunnel attribute information for mLDP.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp pmsi-tunnel-attribute

Tree pmsi-tunnel-attribute

Configurable False

Platforms Supported on all platforms

opaque-lenght *number*

Description The length of the opaque value, in octets

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp pmsi-tunnel-attribute opaque-lenght *number*

Tree opaque-lenght

Configurable False

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Platforms	Supported on all platforms

opaque-value *number*

Description	The LDP MP opaque value, currently only opeque type 1 is supported which is the treeID of the p2mp lsp on the root
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp pmsi-tunnel-attribute opaque-value *number*
Tree	opaque-value
Configurable	False
Platforms	Supported on all platforms

root-node-address *(ipv4-address | ipv6-address)*

Description	IP address of the root router, where the PMSI originates from.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* pmsi-tunnel-mldp pmsi-tunnel-attribute root-node-address *(ipv4-address | ipv6-address)*
Tree	root-node-address
Configurable	False
Platforms	Supported on all platforms

prefix-sid

Description	Enter the prefix-sid context This container defines Prefix SID TLVs
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid
Tree	prefix-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tlv type *identityref*

Description	List of TLV types in the LSDB for the specified LSP.

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Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref*

Tree tlv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of TLV being described. The type of TLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref*

Options

- label-index

  Label index TLV
- srgb-originator

  SRGB originator TLV
- srv6-l3-service

  SRv6 L3 service (TLV 5)
- srv6-l2-service

  SRv6 L2 service (TLV 6)

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-index

Description Enter the label-index context

This container defines TLV 1.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* label-index

Tree label-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-index *number*

Description 32-bit value representing the index value in the SRGB space

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* label-index label-index *number*

Tree label-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srgb-originator

Description Enter the srgb-originator context

This container defines TLV 3.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srgb-originator

Tree srgb-originator

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srgb *string*

Description List of SRGB ranges, each in the format <first-label>:<number-of-labels>

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srgb-originator srgb *string*

Tree srgb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-l2-service

Description Enter the srv6-l2-service context

This container defines TLV 6.

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Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service

Tree srv6-l2-service

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-tlv type *identityref*

Description List of sub-TLV types of the SRv6 L2 Service TLV.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref*

Tree sub-tlv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref*

Options

- srv6-sid-information

  SRv6 Service SID information (sub-TLV 1)

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-information

Description Enter the srv6-sid-information context

Service SID information

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information

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Tree	srv6-sid-information
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *identityref*

Description	Endpoint behavior associated with the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information behavior *identityref*
Tree	behavior
Options	• end-dt6 Endpoint decapsulation and specific IPv6 table lookup • end-dt4 Endpoint decapsulation and specific IPv4 table lookup • end-dt46 Endpoint decapsulation and specific IP table lookup • end-dx2 Endpoint decapsulation and L2 cross-connect • end-dt2u Endpoint decapsulation and unicast MAC L2 table lookup • end-dt2m Endpoint decapsulation and L2 table flooding • udt6 Endpoint decapsulation and specific IPv6 table lookup with NEXT-CSID flavor • udt4 Endpoint decapsulation and specific IPv4 table lookup with NEXT-CSID flavor • udt46 Endpoint decapsulation and specific IP table lookup with NEXT-CSID flavor • udx2 Endpoint decapsulation and L2 cross-connect with NEXT-CSID flavor • udt2u

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Endpoint decapsulation and unicast MAC L2 table lookup with NEXT-CSID flavor

- udt2m

  Endpoint decapsulation and L2 table flooding with NEXT-CSID flavor

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-value *string*

Description SRv6 SID

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sid-value *string*

Tree sid-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLV types of the SRv6 SID Information sub-TLV.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref*

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Options
- srv6-sid-structure-bgp

  SRv6 SID Structure (sub-sub-TLV 1)

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

SRv6 SID stricture information

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description Length of the argument part of the SRv6 SID

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description Length of the block part of the SRv6 SID

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

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Tree	block-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description	Length of the function part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*
Tree	function-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description	Length of the node part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*
Tree	node-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transposition-length *number*

Description	Number of bits taken out of the SRv6 SID value and encoded in the MPLS Label field
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure transposition-length *number*
Tree	transposition-length

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transposition-offset *number*

Description	Position (from MSB) of the bits taken out of the SRv6 SID value and encoded in the MPLS Label field
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l2-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure transposition-offset *number*
Tree	transposition-offset
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-l3-service

Description	Enter the srv6-l3-service context This container defines TLV 5.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service
Tree	srv6-l3-service
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-tlv type *identityref*

Description	List of sub-TLV types of the SRv6 L3 Service TLV.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref*
Tree	sub-tlv
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref*

Options

- srv6-sid-information

  SRv6 Service SID information (sub-TLV 1)

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-information

Description Enter the srv6-sid-information context

Service SID information

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information

Tree srv6-sid-information

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *identityref*

Description Endpoint behavior associated with the SRv6 SID

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information behavior *identityref*

Tree behavior

Options

- end-dt6

  Endpoint decapsulation and specific IPv6 table lookup

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- end-dt4

  Endpoint decapsulation and specific IPv4 table lookup
- end-dt46

  Endpoint decapsulation and specific IP table lookup
- end-dx2

  Endpoint decapsulation and L2 cross-connect
- end-dt2u

  Endpoint decapsulation and unicast MAC L2 table lookup
- end-dt2m

  Endpoint decapsulation and L2 table flooding
- udt6

  Endpoint decapsulation and specific IPv6 table lookup with NEXT-CSID flavor
- udt4

  Endpoint decapsulation and specific IPv4 table lookup with NEXT-CSID flavor
- udt46

  Endpoint decapsulation and specific IP table lookup with NEXT-CSID flavor
- udx2

  Endpoint decapsulation and L2 cross-connect with NEXT-CSID flavor
- udt2u

  Endpoint decapsulation and unicast MAC L2 table lookup with NEXT-CSID flavor
- udt2m

  Endpoint decapsulation and L2 table flooding with NEXT-CSID flavor

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-value *string*

Description SRv6 SID

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sid-value *string*

Tree sid-value

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLV types of the SRv6 SID Information sub-TLV.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-bgp

  SRv6 SID Structure (sub-sub-TLV 1)

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

SRv6 SID stricture information

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description	Length of the argument part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*
Tree	argument-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description	Length of the block part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*
Tree	block-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description	Length of the function part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*
Tree	function-length
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description	Length of the node part of the SRv6 SID
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*
Tree	node-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transposition-length *number*

Description	Number of bits taken out of the SRv6 SID value and encoded in the MPLS Label field
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure transposition-length *number*
Tree	transposition-length
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transposition-offset *number*

Description	Position (from MSB) of the bits taken out of the SRv6 SID value and encoded in the MPLS Label field
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* prefix-sid tlv type *identityref* srv6-l3-service sub-tlv type *identityref* srv6-sid-information sub-sub-tlv type *identityref* srv6-sid-structure transposition-offset *number*
Tree	transposition-offset
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-encapsulation

Description	Enter the tunnel-encapsulation context This container models the Tunnel Encapsulation Attribute defined by RFC 9012
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation
Tree	tunnel-encapsulation
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy

Description	Enter the srte-policy context SRTE policy tunnel type
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy
Tree	srte-policy
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-tlvs

Description	Enter the sub-tlvs context
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs

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Tree sub-tlvs

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the tunnel-encapsulation attribute

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref*

Options

- encapsulation

  Encapsulation subTLV (type 1)
- protocol-type

  Protocol type subTLV (type 2)
- color

  Color subTLV (type 4)
- load-balancing-block

  Load balancing block subTLV (type 5)
- tunnel-egress-endpoint

  Tunnel egress endpoint subTLV (type 6)
- ds-field

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DS field subTLV (type 7)

- udp-dest-port
  UDP destination port subTLV (type 8)
- embedded-label-handling
  Embedded label handling subTLV (type 9)
- mpls-label-stack
  MPLS label stack subTLV (type 10)
- prefix-sid
  Prefix SID subTLV (type 11)
- preference
  Preference subTLV (type 12)
- binding-sid
  Binding SID subTLV (type 13)
- explicit-null-label-policy
  ENLP subTLV (type 14)
- priority
  Priority subTLV (type 15)
- spi
  SPI subTLV (type 16)
- srv6-binding-sid
  SRv6 binding SID subTLV (type 20)
- segment-list
  Segment list subTLV (type 128)
- srte-policy-candidate-path-name
  SRTE policy candidate path name subTLV (type 129)
- srte-policy-name
  SRTE policy name subTLV (type 130)

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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binding-sid

Description Enter the binding-sid context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid

Tree binding-sid

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-upon-invalid *boolean*

Description Drop matching traffic if there is no valid candidate path

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid drop-upon-invalid *boolean*

Tree drop-upon-invalid

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description Length of the value field, expected to be 6 bytes

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid length *number*

Tree length

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enter the mpls context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid mpls

Tree mpls

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bottom-of-stack *boolean*

Description Bottom of stack flag

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid mpls bottom-of-stack *boolean*

Tree bottom-of-stack

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-value *number*

Description MPLS label value

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid mpls label-value *number*

Tree label-value

Range 16 to 1048575

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-to-live *number*

Description	MPLS TTL value
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid mpls time-to-live *number*
Tree	time-to-live
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	MPLS traffic class
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid mpls traffic-class *number*
Tree	traffic-class
Range	0 to 7
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

specified-bsid-only *boolean*

Description	Enter the specified-bsid-only context

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Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* binding-sid specified-bsid-only *boolean*
Tree	specified-bsid-only
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-null-label-policy

Description	Enter the explicit-null-label-policy context Used to specify whether an Explicit NULL Label must be pushed on an unlabeled IP packet before any other labels
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* explicit-null-label-policy
Tree	explicit-null-label-policy
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	Explicit null label policy
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* explicit-null-label-policy value *number*
Tree	value
Range	1 to 4
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preference

Description Enter the preference context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* preference

Tree preference

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description 4-octet value indicating the Preference of the SR Policy Candidate Path

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* preference value *number*

Tree value

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority

Description Enter the priority context

Used to specify indicate the order in which the SR policies are re-computed upon topological change

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* priority

Tree priority

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	Enter the value context
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* priority value *number*
Tree	value
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list index *number*

Description	Enter the segment-list list instance
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number*
Tree	segment-list
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index indicating the encoding order of the segment-list
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number*

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description	The total length of the sub-TLVs encoded within the Segment List sub-TLV in bytes
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* length *number*
Tree	length
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-tlvs

Description	Enter the sub-tlvs context
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs
Tree	sub-tlvs
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment index *number*

Description	List of segment subTLVs in the segment-list subTLV

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Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number*

Tree segment

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index indicating the encoding order of the segments in the segment-list

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-type-a

Description Enter the segment-type-a context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a

Tree segment-type-a

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls

Description Enter the mpls context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a mpls

Tree mpls

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bottom-of-stack *boolean*

Description Bottom of stack flag

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a mpls bottom-of-stack *boolean*

Tree bottom-of-stack

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-value *number*

Description MPLS label value

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a mpls label-value *number*

Tree label-value

Range 16 to 1048575

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-to-live *number*

Description	MPLS TTL value
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a mpls time-to-live *number*
Tree	time-to-live
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	MPLS traffic class
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a mpls traffic-class *number*
Tree	traffic-class
Range	0 to 7
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sid-verification *boolean*

Description Set true when SID verification is requested

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* segment-type-a sid-verification *boolean*

Tree sid-verification

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs segment index *number* type *keyword*

Tree type

Options

- a
- b
- c
- d
- e
- f
- g
- h
- i
- j
- k

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight

Description Enter the weight context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs weight

Tree weight

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description 4 octets an unsigned integer value indicating the weight associated with a segment list

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* segment-list index *number* sub-tlvs weight value *number*

Tree value

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-candidate-path-name

Description Enter the srte-policy-candidate-path-name context

Symbolic name of the candidate path

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* srte-policy-candidate-path-name

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Tree	srte-policy-candidate-path-name
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Enter the name context
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* srte-policy-candidate-path-name name *string*
Tree	name
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-name

Description	Enter the srte-policy-name context Symbolic name of the policy
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* srte-policy-name
Tree	srte-policy-name
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Enter the name context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation srte-policy sub-tlvs subtlv type *identityref* srte-policy-name name *string*

Tree name

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-type *identityref*

Description Identifies a type of tunnel

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation tunnel-type *identityref*

Tree tunnel-type

Options

- l2tpv3-over-ip

  L2TPv3 tunnel (type 1)
- gre

  GRE tunnel (type 2)
- ip-in-ip

  IP-in-IP tunnel (type 7)
- vxlan

  VXLAN tunnel (type 8)
- nvgre

  NVGRE tunnel (type 9)
- mpls

  MPLS tunnel (type 10)
- mpls-in-gre

  MPLS in GRE tunnel (type 11)
- vxlan-gpe

  VXLAN-GPE tunnel (type 12)
- mpls-in-udp

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MPLS-in-UDP tunnel (type 13)

- ipv6
  IPv6 tunnel (type 14)
- srte-policy
  SRTE policy tunnel (type 15)
- bare
  Bare tunnel (type 16)
- cloud-security
  Cloud security tunnel (type 18)
- geneve
  Geneve tunnel (type 19)
- any-encap
  Any-encapsulation tunnel (type 20)
- gtp
  GTP tunnel (type 21)
- dynamic-path-selection-tunnel
  DPS tunnel (type 22)
- originating-pe
  OPE tunnel (type 23)
- dynamic-path-selection-policy
  DPS policy (type 24)
- sdwan-hybrid
  SDWAN-Hybrid tunnel (type 25)
- x-over-udp
  X-over-UDP tunnel (type 26)
- distributed-etherlink-switch
  DES tunnel (type 27)

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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vxlan

Description Enter the vxlan context

VXLAN tunnel type

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan

Tree vxlan

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-tlvs

Description Enter the sub-tlvs context

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs

Tree sub-tlvs

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the tunnel-encapsulation attribute

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description

The type of subTLV being described

The type of subTLV is expressed as a canonical name.

Context

network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref*

Options

- encapsulation

  Encapsulation subTLV (type 1)
- protocol-type

  Protocol type subTLV (type 2)
- color

  Color subTLV (type 4)
- load-balancing-block

  Load balancing block subTLV (type 5)
- tunnel-egress-endpoint

  Tunnel egress endpoint subTLV (type 6)
- ds-field

  DS field subTLV (type 7)
- udp-dest-port

  UDP destination port subTLV (type 8)
- embedded-label-handling

  Embedded label handling subTLV (type 9)
- mpls-label-stack

  MPLS label stack subTLV (type 10)
- prefix-sid

  Prefix SID subTLV (type 11)
- preference

  Preference subTLV (type 12)
- binding-sid

  Binding SID subTLV (type 13)
- explicit-null-label-policy

  ENLP subTLV (type 14)
- priority

  Priority subTLV (type 15)

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- spi

  SPI subTLV (type 16)
- srv6-binding-sid

  SRv6 binding SID subTLV (type 20)
- segment-list

  Segment list subTLV (type 128)
- srte-policy-candidate-path-name

  SRTE policy candidate path name subTLV (type 129)
- srte-policy-name

  SRTE policy name subTLV (type 130)

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address

Description Enter the address context

Address of the tunnel egress endpoint

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref* address

Tree address

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description Address of the tunnel egress endpoint

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref* address address *(ipv4-address | ipv6-address)*

Tree address

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Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-family

Description Enter the address-family context

Address family of the tunnel egress endpoint

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref* address-family

Tree address-family

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-family *identityref*

Description Address family of the tunnel egress endpoint address

Context network-instance name *string* bgp-rib attr-sets attr-set index *number* tunnel-encapsulation vxlan sub-tlvs subtlv type *identityref* address-family address-family *identityref*

Tree address-family

Options

- ipv4

  IPv4 address family (AFI = 1)

- ipv6

  IPv6 address family (AFI = 2)

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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unknown-attributes

Description	Enter the unknown-attributes context Container for unknown path attributes
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes
Tree	unknown-attributes
Configurable	False
Platforms	Supported on all platforms

unknown-attribute unknown-attr-index *number*

Description	List of unknown BGP path attributes
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number*
Tree	unknown-attribute
Configurable	False
Platforms	Supported on all platforms

unknown-attr-index *number*

Description	RIB attribute unknown attribute index
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number*
Configurable	False
Platforms	Supported on all platforms

attr-len *number*

Description	The length of the unknown path attribute
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* attr-len *number*
Tree	attr-len
Configurable	False
Platforms	Supported on all platforms

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attr-type *number*

Description	The type code of the unknown path attribute
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* attr-type *number*
Tree	attr-type
Configurable	False
Platforms	Supported on all platforms

extended *boolean*

Description	Set to true if the unknown path attribute has the extended length flag is set to 1.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* extended *boolean*
Tree	extended
Configurable	False
Platforms	Supported on all platforms

optional *boolean*

Description	Set to true if the unknown path attribute has the optional flag is set to 1.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* optional *boolean*
Tree	optional
Configurable	False
Platforms	Supported on all platforms

partial *boolean*

Description	Set to true if the unknown path attribute has the partial flag is set to 1.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* partial *boolean*
Tree	partial

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Configurable	False
Platforms	Supported on all platforms

transitive *boolean*

Description	Set to true if the unknown path attribute has the transitive flag is set to 1.
Context	network-instance name *string* bgp-rib attr-sets attr-set index *number* unknown-attributes unknown-attribute unknown-attr-index *number* transitive *boolean*
Tree	transitive
Configurable	False
Platforms	Supported on all platforms

bridge-table

Description	Enable the bridge-table context
Context	network-instance name *string* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-unknown-dest-mac *boolean*

Description	Discard frames with unknown destination mac addresses. The source mac address of the discarded frame is learned as long as the mac is valid, mac-learning is enabled, and the number of entries has not reached the maximum-entries threshold.
Context	network-instance name *string* bridge-table discard-unknown-dest-mac *boolean*
Tree	discard-unknown-dest-mac
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-duplication

Description Enter the mac-duplication context

Configuration of the MAC duplication procedures.

Context network-instance name *string* bridge-table mac-duplication

Tree mac-duplication

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action *keyword*

Description Action to take on the subinterface (if action is use-net-instance-action) upon detecting at least one mac addresses as duplicate on the subinterface. In particular:

Context network-instance name *string* bridge-table mac-duplication action *keyword*

Tree action

Default stop-learning

Options

- stop-learning
- blackhole
- oper-down

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Configurable state of the mac-duplication procedures. Mac-duplication detects duplicate macs that move between different subinterfaces or a subinterface and an evpn destination.

Context network-instance name *string* bridge-table mac-duplication admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description Enter the duplicate-entries context

Context network-instance name *string* bridge-table mac-duplication duplicate-entries

Tree duplicate-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs duplicate on the bridging instance

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string*

Tree mac

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description the name of the destination the duplicate mac is installed against in the fdb.

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* destination *string*

Tree destination

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of a subinterface object (system allocated).

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* destination-index *number*

Tree destination-index

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-type *keyword*

Description the type of the destination the duplicate mac is installed against in the fdb.

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* destination-type *keyword*

Tree destination-type

Options

- sub-interface
- blackhole
- irb-interface
- vxlan
- reserved
- evpn-mpls
- connection-point
- srv6

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dup-detect-time *string*

Description The date and time when the mac was declared duplicate

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* dup-detect-time *string*

Tree dup-detect-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time-remaining *(keyword | number)*

Description remaining hold down time for duplicate mac

Context network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* hold-down-time-remaining *(keyword | number)*

Tree hold-down-time-remaining

Units seconds

Options
- indefinite

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time *(keyword | number)*

Description Time to wait from the moment a mac is declared duplicate to the mac is flushed from the bridge table. When the duplicate mac is flushed, the monitoring process for the mac is restarted.

Context network-instance name *string* bridge-table mac-duplication hold-down-time *(keyword | number)*

Tree hold-down-time

Range 2 to 60

Default 9

Units minutes

Options
- indefinite

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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monitoring-window *number*

Description	Monitoring window for detecting duplication on a given mac address. A mac is declared as duplicate if it exceeds the num-moves within the monitoring-window.
Context	network-instance name *string* bridge-table mac-duplication monitoring-window *number*
Tree	monitoring-window
Range	1 to 15
Default	3
Units	minutes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-moves *number*

Description	Number of moves a mac is allowed within the monitoring-window, before it is declared duplicate.
Context	network-instance name *string* bridge-table mac-duplication num-moves *number*
Tree	num-moves
Range	3 to 10
Default	5
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-learning

Description	Enter the mac-learning context
Context	network-instance name *string* bridge-table mac-learning

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Tree mac-learning

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the learning procedures for dynamic mac addresses. If disabled, the existing macs in the bridge-table will be kept (and refreshed if new frames arrive for them) but no new mac addresses will be learned. Frames with unknown mac addresses are not dropped, unless discard-unknown-src-mac is configured.

Context network-instance name *string* bridge-table mac-learning admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging

Description Enter the aging context

Context network-instance name *string* bridge-table mac-learning aging

Tree aging

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the aging for the dynamic mac entries in the bridge table. If disabled, dynamically learned mac entries will be programmed in the bridge table until the network instance is disabled.

Context network-instance name *string* bridge-table mac-learning aging admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

age-time *number*

Description Configurable aging time for dynamically learned mac addresses

Context network-instance name *string* bridge-table mac-learning aging age-time *number*

Tree age-time

Range 60 to 86400

Default 300

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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learnt-entries

Description Enter the learnt-entries context

Context network-instance name *string* bridge-table mac-learning learnt-entries

Tree learnt-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context network-instance name *string* bridge-table mac-learning learnt-entries mac address *string*

Tree mac

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table mac-learning learnt-entries mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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aging *(number | keyword)*

Description remaining age time for learnt macs

Context network-instance name *string* bridge-table mac-learning learnt-entries mac address *string* aging *(number | keyword)*

Tree aging

Units seconds

Options

- disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description the name of the subinterface where the mac is learnt against.

Context network-instance name *string* bridge-table mac-learning learnt-entries mac address *string* destination *string*

Tree destination

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this learnt mac

Context network-instance name *string* bridge-table mac-learning learnt-entries mac address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-

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32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-relearn-only *boolean*

Description The value of this leaf indicates that network-instance will not learn any new mac addresses, but will relearn any that are already programmed

Context network-instance name *string* bridge-table mac-learning mac-relearn-only *boolean*

Tree mac-relearn-only

Default true

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mac-learning *keyword*

Description The operational state of mac-learning on this network instance.

Context network-instance name *string* bridge-table mac-learning oper-mac-learning *keyword*

Tree oper-mac-learning

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting

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- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mac-learning-disabled-reason *keyword*

Description The reason for the mac-learning being disabled on this network instance

Context network-instance name *string* bridge-table mac-learning oper-mac-learning-disabled-reason *keyword*

Tree oper-mac-learning-disabled-reason

Options

- admin-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-limit

Description Enter the mac-limit context

Bridge Table size and thresholds.

Context network-instance name *string* bridge-table mac-limit

Tree mac-limit

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description Maximum number of mac addresses allowed in the bridge-table.

Context network-instance name *string* bridge-table mac-limit maximum-entries *number*

Tree maximum-entries

Range 1 to 250000

Default 250

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description Percentage of the configured max-number-macs over which a warning is triggered. The warning message is cleared when the percentage drops below the configured percentage minus 5%

Context network-instance name *string* bridge-table mac-limit warning-threshold-pct *number*

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Tree	warning-threshold-pct
Range	6 to 100
Default	95
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description	Enter the mac-table context
Context	network-instance name *string* bridge-table mac-table
Tree	mac-table
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* bridge-table mac-table mac address *string*
Tree	mac
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context

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Context network-instance name *string* bridge-table mac-table mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description the name of the destination where the mac is programmed against.

Context network-instance name *string* bridge-table mac-table mac address *string* destination *string*

Tree destination

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of a subinterface object (system allocated).

Context network-instance name *string* bridge-table mac-table mac address *string* destination-index *number*

Tree destination-index

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-type *keyword*

Description the type of the destination the mac installed against in the fdb.

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Context network-instance name *string* bridge-table mac-table mac address *string* destination-type *keyword*

Tree destination-type

Options

- sub-interface
- blackhole
- irb-interface
- vxlan
- reserved
- evpn-mpls
- connection-point
- srv6

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description The list of slot IDs corresponding to the linecards that did not successfully program the mac

Context network-instance name *string* bridge-table mac-table mac address *string* failed-slots *number*

Tree failed-slots

Range 1 to 18

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-based-policy-tag *number*

Description The group-based-policy tag value associated to this mac address

Context network-instance name *string* bridge-table mac-table mac address *string* group-based-policy-tag *number*

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Tree	group-based-policy-tag
Range	0 to 65535
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

is-protected *boolean*

Description	Indicates if the mac is protected in the hardware.
Context	network-instance name *string* bridge-table mac-table mac address *string* is-protected *boolean*
Tree	is-protected
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this mac
Context	network-instance name *string* bridge-table mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the mac is not programmed
Context	network-instance name *string* bridge-table mac-table mac address *string* not-programmed-reason *keyword*

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Tree not-programmed-reason

Options
- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description the type of the mac installed in the fib.

Context network-instance name *string* bridge-table mac-table mac address *string* type *keyword*

Tree type

Options
- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protect-anycast-gw-mac *boolean*

Description	Protect anycast gateway mac's installed in the FDB, when this mac-vrf is part of an IRB.
Context	network-instance name *string* bridge-table protect-anycast-gw-mac *boolean*
Tree	protect-anycast-gw-mac
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

proxy-arp

Description	Enable the proxy-arp context
Context	network-instance name *string* bridge-table proxy-arp
Tree	proxy-arp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Configurable state of the layer-2 proxy ARP/ND table
Context	network-instance name *string* bridge-table proxy-arp admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description Enter the duplicate-entries context

Context network-instance name *string* bridge-table proxy-arp duplicate-entries

Tree duplicate-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv4-address *string*

Description List of duplicate proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description IPv4 address of the proxy ARP entry

Context network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detect-time *string*

Description The date and time when the proxy entry was declared duplicate

Context network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string* detect-time *string*

Tree detect-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time-remaining *(keyword | number)*

Description Remaining hold down time for the duplicate proxy entry

Context network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string* hold-down-time-remaining *(keyword | number)*

Tree hold-down-time-remaining

Units seconds

Options

- indefinite

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description The immutable property of the proxy entry

Context network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string* is-immutable *boolean*

Tree is-immutable

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Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry
Context	network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description	The state of the proxy entry
Context	network-instance name *string* bridge-table proxy-arp duplicate-entries neighbor ipv4-address *string* state *keyword*
Tree	state
Options	• active • in-active • pending
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dynamic-entries

Description Enter the dynamic-entries context

Context network-instance name *string* bridge-table proxy-arp dynamic-entries

Tree dynamic-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv4-address *string*

Description List of dynamic proxy ARP entries

Context network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description IPv4 address of the proxy ARP entry

Context network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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aging *(number | keyword)*

Description	The remaining age time for learnt proxy entry
Context	network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string* aging *(number | keyword)*
Tree	aging
Units	seconds
Options	• disabled
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description	The immutable property of the proxy entry
Context	network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string* is-immutable *boolean*
Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this proxy entry
Context	network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description The resolving MAC address of the proxy entry

Context network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string* link-layer-address *string*

Tree link-layer-address

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-arp dynamic-entries neighbor ipv4-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-learning

Description Enter the dynamic-learning context

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Context network-instance name *string* bridge-table proxy-arp dynamic-learning

Tree dynamic-learning

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the learning procedures for dynamic ARP/ND entries

The dynamic ARP/ND entries are learned out of snooped GARP/ARP/ND messages on bridged sub-interfaces. These entries will be shown as dynamic, as opposed to EVPN entries or static entries. If the admin-state is disabled, the existing ARP/ND entries in the proxy table will be kept (and refreshed).

Context network-instance name *string* bridge-table proxy-arp dynamic-learning admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

age-time *(keyword | number)*

Description Aging timer value for the proxy entries

When the aging expires, the entry is flushed.

Context network-instance name *string* bridge-table proxy-arp dynamic-learning age-time *(keyword | number)*

Tree age-time

Range 60 to 86400

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Default	never
Units	seconds
Options	• never
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-refresh *(number | keyword)*

Description	Configures the proxy refresh interval The interval determines the frequency at which the system generates three ARP Requests or Neighbor Solicitations with the intend to refresh the proxy entry. The refresh is sent within the age-time window.
Context	network-instance name *string* bridge-table proxy-arp dynamic-learning send-refresh *(number | keyword)*
Tree	send-refresh
Range	120 to 86400
Default	never
Options	• never
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn

Description	Enter the evpn context How proxy arp interacts with evpn
Context	network-instance name *string* bridge-table proxy-arp evpn
Tree	evpn
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flood

Description	Enter the flood context How ARP frames received on a proxy service are flooded into the EVPN network
Context	network-instance name *string* bridge-table proxy-arp evpn flood
Tree	flood
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gratuitous-arp *boolean*

Description	Whether to flood GARP requests or replies into EVPN
Context	network-instance name *string* bridge-table proxy-arp evpn flood gratuitous-arp *boolean*
Tree	gratuitous-arp
Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-arp-req *boolean*

Description	Whether to flood ARP requests (with source squelching) when there is no hit in the bridge-table-proxy-arp table
Context	network-instance name *string* bridge-table proxy-arp evpn flood unknown-arp-req *boolean*
Tree	unknown-arp-req

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Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags
Context	network-instance name *string* bridge-table proxy-arp evpn internal-tags
Tree	internal-tags
Configurable	True
Platforms	Supported on all platforms

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	network-instance name *string* bridge-table proxy-arp evpn internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

evpn-entries

Description	Enter the evpn-entries context
Context	network-instance name *string* bridge-table proxy-arp evpn-entries
Tree	evpn-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv4-address *string*

Description List of EVPN proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description IPv4 address of the proxy ARP entry

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description The immutable property of the proxy entry

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string* is-immutable *boolean*

Tree is-immutable

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this proxy entry

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description The resolving MAC address of the proxy entry

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string* link-layer-address *string*

Tree link-layer-address

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-arp evpn-entries neighbor ipv4-address *string* state *keyword*

Tree state

Options

- active
- in-active

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- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-local-es

Description Enter the evpn-local-es context

Configure EVPN local ES information for proxy entries

Context network-instance name *string* bridge-table proxy-arp evpn-local-es

Tree evpn-local-es

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise *boolean*

Description Controls whether EVPN-sourced proxy ARP/ND entries are re-advertised as EVPN local Ethernet Segment (ES) routes

When set to true, an EVPN proxy entry may be re-advertised as an EVPN MAC/IP Advertisement route with the proxy bit set when the route's Ethernet Segment Identifier (ESI) matches a local ES on the mac-vrf. When set to false, EVPN proxy entries are not re-advertised as EVPN local ES routes.

Context network-instance name *string* bridge-table proxy-arp evpn-local-es advertise *boolean*

Tree advertise

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-timer *number*

Description The retention timer in seconds for evpn-local-es entries

This timer begins when the EVPN MAC/IP Advertisement route that originated the re-advertisement of the evpn-local-es entry is withdrawn and defines how long the evpn-local-es entry is retained. While the timer is active, the router sends ARP Requests or Neighbor Solicitations for the entry to the local ethernet segment. The entry is converted into a dynamic entry if a response is received.

Context network-instance name *string* bridge-table proxy-arp evpn-local-es retention-timer *number*

Tree retention-timer

Range 0 to 65535

Default 0

Units seconds

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-duplication

Description Enter the ip-duplication context

Configuration of the proxy ARP/ND IP duplication procedures

Context network-instance name *string* bridge-table proxy-arp ip-duplication

Tree ip-duplication

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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anti-spoof-mac *string*

Description MAC address associated with the optional anti-spoofing mechanism

Context network-instance name *string* bridge-table proxy-arp ip-duplication anti-spoof-mac *string*

Tree anti-spoof-mac

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time *(keyword | number)*

Description Time to wait from the moment an IP is declared duplicate to the time the IP is removed from the proxy ARP/ND table

When the duplicate IP is removed, the monitoring process for the IP address is restarted.

Context network-instance name *string* bridge-table proxy-arp ip-duplication hold-down-time *(keyword | number)*

Tree hold-down-time

Range 2 to 60

Default 9

Units minutes

Options

- indefinite

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

monitoring-window *number*

Description Monitoring window for detecting duplication on a given ip address in the proxy ARP/ND table

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An IP is declared duplicate if it exceeds the num-moves within the monitoring-window.

Context network-instance name *string* bridge-table proxy-arp ip-duplication monitoring-window *number*

Tree monitoring-window

Range 1 to 15

Default 3

Units minutes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-moves *number*

Description Number of moves in the proxy ARP/ND table that an IP is allowed within the monitoring-window

When the number of moves exceeds this value, the IP address is declared duplicate.

Context network-instance name *string* bridge-table proxy-arp ip-duplication num-moves *number*

Tree num-moves

Range 3 to 10

Default 5

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-blackhole *boolean*

Description Whether the anti-spoof MAC is programmed as a black hole static-mac in the mac-table

Context network-instance name *string* bridge-table proxy-arp ip-duplication static-blackhole *boolean*

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Tree	static-blackhole
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason the proxy-type is down on the network-instance
Context	network-instance name *string* bridge-table proxy-arp oper-down-reason *keyword*
Tree	oper-down-reason
Options	• admin-down • no-mcid • tag-set-not-resolved
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-arp-probes *boolean*

Description	Determines whether the router processes ARP probe messages. When set to true, ARP probe messages used by the hosts for Duplicate Address Detection are processed, replied if a proxy-arp entry is hit or reinjected into the data path. When set to false, ARP probe messages are flooded to the remote nodes if unknown-arp-requests are configured to be flooded. ARP probe messages are identified as ARP Requests that use IP address 0.0.0.0 as sender's address.
Context	network-instance name *string* bridge-table proxy-arp process-arp-probes *boolean*
Tree	process-arp-probes
Default	true

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-entries

Description	Enter the static-entries context
Context	network-instance name *string* bridge-table proxy-arp static-entries
Tree	static-entries
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv4-address *string*

Description	List of static proxy ARP entries that map an IPv4 address to a MAC address To configure a static proxy ARP entry a value must be written into this leaf, as well as the link-layer-address leaf.
Context	network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string*
Tree	neighbor
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description	IPv4 address resolved by the proxy ARP entry

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To configure a static neighbor entry a value must be written into this leaf, as well as the link-layer-address leaf.

Context network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description The immutable property of the proxy entry

Context network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string* is-immutable *boolean*

Tree is-immutable

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this proxy entry

Context network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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link-layer-address *string*

Description The resolving MAC address of the proxy entry

To configure a static proxy entry a value must be written into this leaf and the ip-address leaf.

Context network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string* link-layer-address *string*

Tree link-layer-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-arp static-entries neighbor ipv4-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* bridge-table proxy-arp statistics

Tree statistics

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of active proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-arp statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-active-entries *number*

Description	The total number of inactive proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-arp statistics in-active-entries *number*
Tree	in-active-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-origin origin *keyword*

Description	The origin of the proxy entry installed in the table

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Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword*

Tree neighbor-origin

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin *keyword*

Description Enter the origin context

Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword*

Options

- static
- dynamic
- evpn
- duplicate

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of active proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-active-entries *number*

Description The total number of inactive proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword* in-active-entries *number*

Tree in-active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-entries *number*

Description The total number of pending proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword* pending-entries *number*

Tree pending-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of proxy ARP entries.

Context network-instance name *string* bridge-table proxy-arp statistics neighbor-origin origin *keyword* total-entries *number*

Tree total-entries

Default 0

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-entries *number*

Description	The total number of pending proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-arp statistics pending-entries *number*
Tree	pending-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-arp statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table-entries

Description	Enter the table-entries context

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Context	network-instance name *string* bridge-table proxy-arp table-entries
Tree	table-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv4-address *string*

Description	List of static and dynamic proxy ARP entries that map an IPv4 address to a MAC address
Context	network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string*
Tree	neighbor
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description	IPv4 address resolved by the proxy ARP entry
Context	network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description	The immutable property of the proxy entry

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Context	network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string* is-immutable *boolean*
Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this proxy entry
Context	network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry
Context	network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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origin *keyword*

Description The origin of the proxy entry

Context network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string* origin *keyword*

Tree origin

Options

- static
- dynamic
- evpn
- duplicate

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-arp table-entries neighbor ipv4-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table-size *number*

Description Maximum number of entries allowed in the proxy table of the network-instance

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Context	network-instance name *string* bridge-table proxy-arp table-size *number*
Tree	table-size
Range	1 to 8192
Default	250
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context Debug trace-options for Proxy-ARP
Context	network-instance name *string* bridge-table proxy-arp trace-options
Tree	trace-options
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flag name *keyword*

Description	Tracing parameters
Context	network-instance name *string* bridge-table proxy-arp trace-options flag name *keyword*
Tree	flag
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *keyword*

Description Enter the name context

Context network-instance name *string* bridge-table proxy-arp trace-options flag name *keyword*

Options

- request

  Trace all ARP request protocol packets snooped or generated for proxy-ARP

- reply

  Trace all ARP reply protocol packets snooped or generated for proxy-ARP

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* bridge-table proxy-arp trace-options flag name *keyword* modifier *keyword*

Tree modifier

Options

- detail

  Enables detailed tracing

  Includes both, received and sent packets.

- receive

  Enables tracing for the received packets

- send

  Enables tracing for the sent packets

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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proxy-nd

Description Enable the proxy-nd context

Context network-instance name *string* bridge-table proxy-nd

Tree proxy-nd

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the layer-2 proxy ARP/ND table

Context network-instance name *string* bridge-table proxy-nd admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description Enter the duplicate-entries context

Context network-instance name *string* bridge-table proxy-nd duplicate-entries

Tree duplicate-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv6-address *string*

Description List of duplicate proxy ND entries

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description IPv6 address of the proxy ND entry

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detect-time *string*

Description The date and time when the proxy entry was declared duplicate

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* detect-time *string*

Tree detect-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-override *boolean*

Description The evpn-override property of the proxy entry

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* evpn-override *boolean*

Tree evpn-override

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time-remaining *(keyword | number)*

Description Remaining hold down time for the duplicate proxy entry

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* hold-down-time-remaining *(keyword | number)*

Tree hold-down-time-remaining

Units seconds

Options

- indefinite

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description The immutable property of the proxy entry

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* is-immutable *boolean*

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Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description	The state of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* state *keyword*
Tree	state
Options	• active • in-active • pending
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *keyword*

Description The type of the neighbor entry

Context network-instance name *string* bridge-table proxy-nd duplicate-entries neighbor ipv6-address *string* type *keyword*

Tree type

Options
- router
- host

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-entries

Description Enter the dynamic-entries context

Context network-instance name *string* bridge-table proxy-nd dynamic-entries

Tree dynamic-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv6-address *string*

Description List of dynamic proxy ND entries

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description IPv6 address of the proxy ND entry

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging *(number | keyword)*

Description The remaining age time for learnt proxy entry

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* aging *(number | keyword)*

Tree aging

Units seconds

Options

- disabled

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-override *boolean*

Description The evpn-override property of the proxy entry

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* evpn-override *boolean*

Tree evpn-override

Default false

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description	The immutable property of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* is-immutable *boolean*
Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this proxy entry
Context	network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry

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Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* link-layer-address *string*

Tree link-layer-address

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the neighbor entry

Context network-instance name *string* bridge-table proxy-nd dynamic-entries neighbor ipv6-address *string* type *keyword*

Tree type

Options

- router
- host

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-learning

Description Enter the dynamic-learning context

Context network-instance name *string* bridge-table proxy-nd dynamic-learning

Tree dynamic-learning

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the learning procedures for dynamic ARP/ND entries

The dynamic ARP/ND entries are learned out of snooped GARP/ARP/ND messages on bridged sub-interfaces. These entries will be shown as dynamic, as opposed to EVPN entries or static entries. If the admin-state is disabled, the existing ARP/ND entries in the proxy table will be kept (and refreshed).

Context network-instance name *string* bridge-table proxy-nd dynamic-learning admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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age-time *(keyword | number)*

Description Aging timer value for the proxy entries

When the aging expires, the entry is flushed.

Context network-instance name *string* bridge-table proxy-nd dynamic-learning age-time *(keyword | number)*

Tree age-time

Range 60 to 86400

Default never

Units seconds

Options

- never

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-refresh *(number | keyword)*

Description Configures the proxy refresh interval

The interval determines the frequency at which the system generates three ARP Requests or Neighbor Solicitations with the intend to refresh the proxy entry. The refresh is sent within the age-time window.

Context network-instance name *string* bridge-table proxy-nd dynamic-learning send-refresh *(number | keyword)*

Tree send-refresh

Range 120 to 86400

Default never

Options

- never

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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evpn

Description Enter the evpn context

How proxy ARP/ND interacts with EVPN

Context network-instance name *string* bridge-table proxy-nd evpn

Tree evpn

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-neighbor-type *keyword*

Description Whether to advertise router entries or host entries into EVPN MAC/IP routes

It also specifies whether to reply to Neighbor Solicitations for EVPN entries with the router flag set or unset.

Context network-instance name *string* bridge-table proxy-nd evpn advertise-neighbor-type *keyword*

Tree advertise-neighbor-type

Default router

Options

- router
- host
- router-host

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flood

Description Enter the flood context

How Neighbor Discovery frames received on a proxy service are flooded into the EVPN network

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Context	network-instance name *string* bridge-table proxy-nd evpn flood
Tree	flood
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-neighbor-advertise-host *boolean*

Description	Whether to flood Neighbor Advertisement (NA) replies, for type host, into the EVPN network
Context	network-instance name *string* bridge-table proxy-nd evpn flood unknown-neighbor-advertise-host *boolean*
Tree	unknown-neighbor-advertise-host
Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-neighbor-advertise-router *boolean*

Description	Whether to flood Neighbor Advertisement (NA) replies, for type router, into the EVPN network
Context	network-instance name *string* bridge-table proxy-nd evpn flood unknown-neighbor-advertise-router *boolean*
Tree	unknown-neighbor-advertise-router
Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-neighbor-solicitation *boolean*

Description	Whether to flood Neighbor Solicitation (NS) messages (with source squelching) into the EVPN network

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Context	network-instance name *string* bridge-table proxy-nd evpn flood unknown-neighbor-solicitation *boolean*
Tree	unknown-neighbor-solicitation
Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags
Context	network-instance name *string* bridge-table proxy-nd evpn internal-tags
Tree	internal-tags
Configurable	True
Platforms	Supported on all platforms

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	network-instance name *string* bridge-table proxy-nd evpn internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

evpn-entries

Description	Enter the evpn-entries context
Context	network-instance name *string* bridge-table proxy-nd evpn-entries
Tree	evpn-entries
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv6-address *string*

Description	List of EVPN proxy ND entries.
Context	network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string*
Tree	neighbor
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description	IPv6 address of the proxy ND entry
Context	network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-override *boolean*

Description	The evpn-override property of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* evpn-override *boolean*
Tree	evpn-override
Default	false

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description	The immutable property of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* is-immutable *boolean*
Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this proxy entry
Context	network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry

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Context network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* link-layer-address *string*

Tree link-layer-address

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the neighbor entry

Context network-instance name *string* bridge-table proxy-nd evpn-entries neighbor ipv6-address *string* type *keyword*

Tree type

Options

- router
- host

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-local-es

Description Enter the evpn-local-es context

Configure EVPN local ES information for proxy entries

Context network-instance name *string* bridge-table proxy-nd evpn-local-es

Tree evpn-local-es

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise *boolean*

Description Controls whether EVPN-sourced proxy ARP/ND entries are re-advertised as EVPN local Ethernet Segment (ES) routes

When set to true, an EVPN proxy entry may be re-advertised as an EVPN MAC/IP Advertisement route with the proxy bit set when the route's Ethernet Segment Identifier (ESI) matches a local ES on the mac-vrf. When set to false, EVPN proxy entries are not re-advertised as EVPN local ES routes.

Context network-instance name *string* bridge-table proxy-nd evpn-local-es advertise *boolean*

Tree advertise

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-timer *number*

Description The retention timer in seconds for evpn-local-es entries

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This timer begins when the EVPN MAC/IP Advertisement route that originated the re-advertisement of the evpn-local-es entry is withdrawn and defines how long the evpn-local-es entry is retained. While the timer is active, the router sends ARP Requests or Neighbor Solicitations for the entry to the local ethernet segment. The entry is converted into a dynamic entry if a response is received.

Context network-instance name *string* bridge-table proxy-nd evpn-local-es retention-timer *number*

Tree retention-timer

Range 0 to 65535

Default 0

Units seconds

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-duplication

Description Enter the ip-duplication context

Configuration of the proxy ARP/ND IP duplication procedures

Context network-instance name *string* bridge-table proxy-nd ip-duplication

Tree ip-duplication

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anti-spoof-mac *string*

Description MAC address associated with the optional anti-spoofing mechanism

Context network-instance name *string* bridge-table proxy-nd ip-duplication anti-spoof-mac *string*

Tree anti-spoof-mac

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time *(keyword | number)*

Description	Time to wait from the moment an IP is declared duplicate to the time the IP is removed from the proxy ARP/ND table When the duplicate IP is removed, the monitoring process for the IP address is restarted.
Context	network-instance name *string* bridge-table proxy-nd ip-duplication hold-down-time *(keyword | number)*
Tree	hold-down-time
Range	2 to 60
Default	9
Units	minutes
Options	• indefinite
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

monitoring-window *number*

Description	Monitoring window for detecting duplication on a given ip address in the proxy ARP/ND table An IP is declared duplicate if it exceeds the num-moves within the monitoring-window.
Context	network-instance name *string* bridge-table proxy-nd ip-duplication monitoring-window *number*
Tree	monitoring-window
Range	1 to 15
Default	3
Units	minutes

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-moves *number*

Description	Number of moves in the proxy ARP/ND table that an IP is allowed within the monitoring-window When the number of moves exceeds this value, the IP address is declared duplicate.
Context	network-instance name *string* bridge-table proxy-nd ip-duplication num-moves *number*
Tree	num-moves
Range	3 to 10
Default	5
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-blackhole *boolean*

Description	Whether the anti-spoof MAC is programmed as a black hole static-mac in the mac-table
Context	network-instance name *string* bridge-table proxy-nd ip-duplication static-blackhole *boolean*
Tree	static-blackhole
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason the proxy-type is down on the network-instance

Context network-instance name *string* bridge-table proxy-nd oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-down
- no-mcid
- tag-set-not-resolved

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-dad-neighbor-solicitations *boolean*

Description Determines whether the router processes Neighbor Soliciation DAD messages

When set to true, Neighbor Soliciation DAD messages used by the hosts for Duplicate Address Detection are processed, replied if a proxy ND entry is hit, or reinjected into the data path. When set to false, Neighbor Solicitation DAD messages are flooded to the remote nodes if unknown-neighbor-solicitation is configured so that unknown Neighbor Solicitation messages are flooded.

Context network-instance name *string* bridge-table proxy-nd process-dad-neighbor-solicitations *boolean*

Tree process-dad-neighbor-solicitations

Default true

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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static-entries

Description Enter the static-entries context

Context network-instance name *string* bridge-table proxy-nd static-entries

Tree static-entries

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv6-address *string*

Description List of static proxy ND entries that map an IPv6 address to a MAC address

To configure a static proxy ND entry a value must be written into this leaf, as well as the link-layer-address leaf.

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string*

Tree neighbor

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description IPv6 address resolved by the proxy ND entry

To configure a static neighbor entry a value must be written into this leaf, as well as the link-layer-address leaf.

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-override *boolean*

Description The evpn-override property of the proxy entry

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* evpn-override *boolean*

Tree evpn-override

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description The immutable property of the proxy entry

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* is-immutable *boolean*

Tree is-immutable

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this proxy entry

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* last-update *string*

Tree last-update

String Length 20 to 32

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Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description The resolving MAC address of the proxy entry

To configure a static proxy entry a value must be written into this leaf and the ip-address leaf.

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* link-layer-address *string*

Tree link-layer-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *keyword*

Description The type of the neighbor entry

Context network-instance name *string* bridge-table proxy-nd static-entries neighbor ipv6-address *string* type *keyword*

Tree type

Default router

Options

- router
- host

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* bridge-table proxy-nd statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of active proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics active-entries *number*

Tree active-entries

Default 0

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-active-entries *number*

Description	The total number of inactive proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-nd statistics in-active-entries *number*
Tree	in-active-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-origin origin *keyword*

Description	The origin of the proxy entry installed in the table
Context	network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword*
Tree	neighbor-origin
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin *keyword*

Description	Enter the origin context
Context	network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword*

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Options
- static
- dynamic
- evpn
- duplicate

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of active proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-active-entries *number*

Description The total number of inactive proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword* in-active-entries *number*

Tree in-active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-entries *number*

Description The total number of pending proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword* pending-entries *number*

Tree pending-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics neighbor-origin origin *keyword* total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-entries *number*

Description The total number of pending proxy ARP entries.

Context network-instance name *string* bridge-table proxy-nd statistics pending-entries *number*

Tree pending-entries

Default 0

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of proxy ARP entries.
Context	network-instance name *string* bridge-table proxy-nd statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table-entries

Description	Enter the table-entries context
Context	network-instance name *string* bridge-table proxy-nd table-entries
Tree	table-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor ipv6-address *string*

Description	List of proxy ND entries that map an IPv6 address to a MAC address
Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string*

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Tree	neighbor
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description	IPv6 address resolved by the proxy ND entry
Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-override *boolean*

Description	The evpn-override property of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* evpn-override *boolean*
Tree	evpn-override
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-immutable *boolean*

Description	The immutable property of the proxy entry

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Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* is-immutable *boolean*
Tree	is-immutable
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this proxy entry
Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-layer-address *string*

Description	The resolving MAC address of the proxy entry
Context	network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* link-layer-address *string*
Tree	link-layer-address
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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origin *keyword*

Description The origin of the proxy entry

Context network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* origin *keyword*

Tree origin

Options

- static
- dynamic
- evpn
- duplicate

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the proxy entry

Context network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* state *keyword*

Tree state

Options

- active
- in-active
- pending

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the neighbor entry

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Context network-instance name *string* bridge-table proxy-nd table-entries neighbor ipv6-address *string* type *keyword*

Tree type

Options
- router
- host

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table-size *number*

Description Maximum number of entries allowed in the proxy table of the network-instance

Context network-instance name *string* bridge-table proxy-nd table-size *number*

Tree table-size

Range 1 to 8192

Default 250

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Debug traceoptions for Proxy-ARP

Context network-instance name *string* bridge-table proxy-nd trace-options

Tree trace-options

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flag name *keyword*

Description Tracing parameters

Context network-instance name *string* bridge-table proxy-nd trace-options flag name *keyword*

Tree flag

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *keyword*

Description Enter the name context

Context network-instance name *string* bridge-table proxy-nd trace-options flag name *keyword*

Options

- solicitation

  Trace all Neighbor Solicitation packets snooped or generated for proxy ND

- advertisement

  Trace all Neighbor Advertisement packets snooped or generated for proxy ND

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* bridge-table proxy-nd trace-options flag name *keyword* modifier *keyword*

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Tree modifier

Options

- detail

  To enable detailed tracing, including both received and sent packets
- receive

  To enable tracing for the received packets
- send

  To enable tracing for the sent packets

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved-macs

Description Enter the reserved-macs context

Context network-instance name *string* bridge-table reserved-macs

Tree reserved-macs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description reserved macs on the bridging instance

Context network-instance name *string* bridge-table reserved-macs mac address *string*

Tree mac

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table reserved-macs mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

users application *string*

Description applications reserving this mac

Context network-instance name *string* bridge-table reserved-macs mac address *string* users application *string*

Tree users

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application *string*

Description Enter the application context

Context network-instance name *string* bridge-table reserved-macs mac address *string* users application *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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split-horizon-group name *string*

Description	List of split-horizon-groups created in the network-instance
Context	network-instance name *string* bridge-table split-horizon-group name *string*
Tree	split-horizon-group
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *string*

Description	Split-horizon-group created in the network-instance Multiple split-horizon-groups can be configured within the same network-instance of type mac-vrf. Only objects associated to different split-horizon-groups can forward packets among each other.
Context	network-instance name *string* bridge-table split-horizon-group name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-mac

Description	Enter the static-mac context
Context	network-instance name *string* bridge-table static-mac
Tree	static-mac
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description static macs configured on the bridging instance

Context network-instance name *string* bridge-table static-mac mac address *string*

Tree mac

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table static-mac mac address *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *(keyword | subinterface-all | name)*

Description The destination against which the mac is programmed

This parameter is mandatory and may be configured as a subinterface, a blackhole or a connection-point. When a connection-point is configured as destination, the name of the connection-point is given as input, as follows: 'destination <name>'.

Context network-instance name *string* bridge-table static-mac mac address *string* destination *(keyword | subinterface-all | name)*

Tree destination

String Length 5 to 27

Options

- blackhole

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* bridge-table statistics
Tree	statistics
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries that are active in the mac-table.
Context	network-instance name *string* bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	network-instance name *string* bridge-table statistics failed-entries *number*
Tree	failed-entries

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Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	the type of the mac installed in the fib.
Context	network-instance name *string* bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Enter the type context
Context	network-instance name *string* bridge-table statistics mac-type type *keyword*
Options	• static • duplicate • learnt • irb-interface • evpn • evpn-static • irb-interface-anycast • proxy-anti-spoof • reserved • eth-cfm • irb-interface-vrrp
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries of this type that are active in the mac-table.
Context	network-instance name *string* bridge-table statistics mac-type type *keyword* active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs of this type, which have not been programmed on atleast one slot
Context	network-instance name *string* bridge-table statistics mac-type type *keyword* failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs of this type , active and inactive, that are present in the mac-table.

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Context	network-instance name *string* bridge-table statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, that are present in the mac-table.
Context	network-instance name *string* bridge-table statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-point name *string*

Description	Connection-point information.
Context	network-instance name *string* connection-point name *string*
Tree	connection-point
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	255

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name *string*

Description	A unique name identifying the connection-point
Context	network-instance name *string* connection-point name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description	Enable the Bridge Table on the connection-point and configure associated parameters
Context	network-instance name *string* connection-point name *string* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-unknown-src-mac *boolean*

Description	Discard frames with unknown source mac addresses The source mac address of the discarded frame is never learned when this command is enabled.
Context	network-instance name *string* connection-point name *string* bridge-table discard-unknown-src-mac *boolean*
Tree	discard-unknown-src-mac
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac-duplication

Description Enter the mac-duplication context

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication

Tree mac-duplication

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action *keyword*

Description Action to take on all the subinterfaces or pseudowires of the connection-point upon detecting at least one mac addresses as duplicate

In particular:

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication action *keyword*

Tree action

Default use-net-instance-action

Options

- use-net-instance-action
- stop-learning
- blackhole
- oper-down

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description Enter the duplicate-entries context

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Context network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries

Tree duplicate-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs duplicate on the bridging instance

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string*

Tree mac

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dup-detect-time *string*

Description The date and time when the mac was declared duplicate

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Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string* dup-detect-time *string*
Tree	dup-detect-time
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time-remaining *(keyword | number)*

Description	remaining hold down time for duplicate mac
Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string* hold-down-time-remaining *(keyword | number)*
Tree	hold-down-time-remaining
Units	seconds
Options	• indefinite
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-learning

Description	Enter the mac-learning context
Context	network-instance name *string* connection-point name *string* bridge-table mac-learning
Tree	mac-learning
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Configurable state of the learning procedures for dynamic mac addresses

If disabled, the existing macs in the bridge-table will be kept (and refreshed if new frames arrive for them) but no new mac addresses will be learned. Frames with unknown mac addresses are not dropped, unless discard-unknown-src-mac is configured.

Context network-instance name *string* connection-point name *string* bridge-table mac-learning admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging

Description Enter the aging context

Context network-instance name *string* connection-point name *string* bridge-table mac-learning aging

Tree aging

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Configurable state of the aging for the dynamic mac entries in the bridge table

If disabled, dynamically learned mac entries will be programmed in the bridge table until the network instance is disabled.

Context network-instance name *string* connection-point name *string* bridge-table mac-learning aging admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

learnt-entries

Description Enter the learnt-entries context

Context network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries

Tree learnt-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string*

Tree mac

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging *(number | keyword)*

Description remaining age time for learnt macs

Context network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string* aging *(number | keyword)*

Tree aging

Units seconds

Options

- disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this learnt mac

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Context	network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-limit

Description	Enter the mac-limit context Bridge Table size and thresholds
Context	network-instance name *string* connection-point name *string* bridge-table mac-limit
Tree	mac-limit
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description	Maximum number of mac addresses allowed in the bridge-table
Context	network-instance name *string* connection-point name *string* bridge-table mac-limit maximum-entries *number*
Tree	maximum-entries
Range	1 to 8192
Default	250
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description Percentage of the configured max-number-macs over which a warning is triggered

The warning message is cleared when the percentage drops below the configured percentage minus 5%

Context network-instance name *string* connection-point name *string* bridge-table mac-limit warning-threshold-pct *number*

Tree warning-threshold-pct

Range 6 to 100

Default 95

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description Enter the mac-table context

Context network-instance name *string* connection-point name *string* bridge-table mac-table

Tree mac-table

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string*

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Tree	mac
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context
Context	network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description	The list of slot IDs corresponding to the linecards that did not successfully program the mac
Context	network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string* failed-slots *number*
Tree	failed-slots
Range	1 to 18
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this mac

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Context	network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the mac is not programmed
Context	network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string* not-programmed-reason *keyword*
Tree	not-programmed-reason
Options	• mac-limit • failed-on-slots • no-destination-index • reserved
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	the type of the mac installed in the fib.
Context	network-instance name *string* connection-point name *string* bridge-table mac-table mac address *string* type *keyword*
Tree	type
Options	• static • duplicate • learnt

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- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

split-horizon-group *reference*

Description Enter the split-horizon-group context

Context network-instance name *string* connection-point name *string* bridge-table split-horizon-group *reference*

Tree split-horizon-group

Reference network-instance name *string* bridge-table split-horizon-group name *string*

Configurable True

Platforms Supported on 7220 IXR-Dx, 7215 IXS-A1, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5 platforms

statistics

Description Enter the statistics context

Context network-instance name *string* connection-point name *string* bridge-table statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-entries *number*

Description	The total number of entries that are active on the sub-interface.
Context	network-instance name *string* connection-point name *string* bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	network-instance name *string* connection-point name *string* bridge-table statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	the type of the mac on the sub-interface.
Context	network-instance name *string* connection-point name *string* bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-

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32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context network-instance name *string* connection-point name *string* bridge-table statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context network-instance name *string* connection-point name *string* bridge-table statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on atleast one slot

Context network-instance name *string* connection-point name *string* bridge-table statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs of this type , active and inactive, on the sub-interface.

Context network-instance name *string* connection-point name *string* bridge-table statistics mac-type type *keyword* total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs, active and inactive, on the sub-interface.

Context network-instance name *string* connection-point name *string* bridge-table statistics total-entries *number*

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Tree	total-entries
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	network instance allocated connection-point index
Context	network-instance name *string* connection-point name *string* index *number*
Tree	index
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason for the connection-point being down in the network-instance
Context	network-instance name *string* connection-point name *string* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• mac-dup-detected • associations-oper-down • no-associations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of this connection-point.

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Context network-instance name *string* connection-point name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pseudowire name *string*

Description	Pseudowire that can be used for this connection point Multiple pseudowires can be configured within the same connection point. The active pseudowire is selected based on the precedence that it is configured with the endpoint.
Context	network-instance name *string* connection-point name *string* pseudowire name *string*
Tree	pseudowire
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

name *string*

Description	The identifier for the pseudowire
Context	network-instance name *string* connection-point name *string* pseudowire name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	The configured, desired state of the pseudowire
Context	network-instance name *string* connection-point name *string* pseudowire name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description	Whether control word is enabled for the pseudowire If set to true, the router signals the support of the control word for the pseudowires. If the remote peer signals support for the control word too, the router pushes the control word immediately below the vc label (or the flow-label if enabled).
Context	network-instance name *string* connection-point name *string* pseudowire name *string* control-word *boolean*
Tree	control-word
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of a pseudowire object (system allocated).
Context	network-instance name *string* connection-point name *string* pseudowire name *string* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *boolean*

Description	Whether the flow aware transport (FAT) label is enabled for the pseudowire If set to true, the router signals the support of the FAT label for the pseudowire. If the remote peer signals support for the FAT label too, the router pushes the FAT label immediately below the vc label.
Context	network-instance name *string* connection-point name *string* pseudowire name *string* flow-label *boolean*

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Tree	flow-label
Default	false
Configurable	True
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

flow-label-oper-state *keyword*

Description	Operational state of the flow label on the pseudowire The state depends on the local configuration of flow-label and the R flag signaled by the peer. When set to down, the flow-aware transport label is not used irrespective of the local configuration of the flow-label.
Context	network-instance name *string* connection-point name *string* pseudowire name *string* flow-label-oper-state *keyword*
Tree	flow-label-oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded

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Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

index *number*

Description Network instance allocated pseudowire index

Context network-instance name *string* connection-point name *string* pseudowire name *string* index *number*

Tree index

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description The date and time of the most recent change to the pseudowire state

Context network-instance name *string* connection-point name *string* pseudowire name *string* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local

Description Enter the local context

The local parameters of the pseudowire

Context network-instance name *string* connection-point name *string* pseudowire name *string* local

Tree local

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-ingress-vc-label *number*

Description The value of the operational ingress vc label

The ingress virtual circuit mpls label is allocated by the system when the signaling is of type TLDP or configured if the signaling is static.

Context network-instance name *string* connection-point name *string* pseudowire name *string* local operational-ingress-vc-label *number*

Tree operational-ingress-vc-label

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pseudowire-status *keyword*

Description Indicates a local fault in the pseudowire

The bits are signaled in the pseudowire status bits TLV of the TLDP messages to the peer.

Context network-instance name *string* connection-point name *string* pseudowire name *string* local pseudowire-status *keyword*

Tree pseudowire-status

Options

- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault

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- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the pseudowire being oper down

Context network-instance name *string* connection-point name *string* pseudowire name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled
- network-instance-oper-down
- no-ingress-vc-label
- no-egress-vc-label
- network-instance-mtu-mismatch
- remote-system-fault-status-bits
- evpn-route-conflict
- transport-tunnel-oper-down
- no-destination-id
- connection-point-dup-detect

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the pseudowire

Context network-instance name *string* connection-point name *string* pseudowire name *string* oper-state *keyword*

Tree oper-state

Options

- up

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Component or process is operational

- down

  Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pw-tunnel *reference*

Description	The tunnel over which the pseudowire is transported
Context	network-instance name *string* connection-point name *string* pseudowire name *string* pw-tunnel *reference*
Tree	pw-tunnel
Reference	tunnel pseudowire-tunnel tunnel name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote

Description	Enter the remote context The remote parameters of the pseudowire
Context	network-instance name *string* connection-point name *string* pseudowire name *string* remote
Tree	remote
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-egress-vc-label *number*

Description	The value of the operational egress vc label The egress virtual circuit mpls label is received via TLDP when the signaling is of type TLDP or configured if the signaling is static.
Context	network-instance name *string* connection-point name *string* pseudowire name *string* remote operational-egress-vc-label *number*
Tree	operational-egress-vc-label
Range	16 to 1048575
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pseudowire-status *keyword*

Description Indicates a peer fault in the pseudowire

The bits are received in the pseudowire status bits TLV of the TLDP messages from the peer.

Context network-instance name *string* connection-point name *string* pseudowire name *string* remote pseudowire-status *keyword*

Tree pseudowire-status

Options

- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault
- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling

Description Enter the signaling context

Signaling configuration for the pseudowire

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling

Tree signaling

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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static

Description Enter the static context

Static pseudowire parameters

The virtual circuit labels are configured on both ends of the pseudowire.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling static

Tree static

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-vc-label *number*

Description The value of the configured egress vc label

The egress virtual circuit mpls label is allocated by the system when the endpoint signaling is of type TLDP or configured in this case since the signaling is static.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling static egress-vc-label *number*

Tree egress-vc-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-vc-label *number*

Description The value of the configured ingress vc label

The ingress virtual circuit mpls label is configured if the pseudowire signaling is static.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling static ingress-vc-label *number*

Tree ingress-vc-label

Range 16 to 1048575

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tldp

Description Enter the tldp context

Targeted Label Distribution Protocol pseudowire signaling parameters

When the network instance is of type vpws, the use of TLDP is specified in RFC4447. When the network instance is of type mac-vrf, the use of TLDP is specified in RFC4762.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling tldp

Tree tldp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-l2-mtu *number*

Description Layer-2 MTU advertised to the remote peer in bytes.

The default value signaled for a pseudowire is taken from the oper-mac-vrf-mtu (in case of a mac-vrf) or from the oper-vpws-mtu (in case of a vpws) parameters. However, that default value is overridden by the value configured with this command.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling tldp advertise-l2-mtu *number*

Tree advertise-l2-mtu

Range 1450 to 9500

Units bytes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-mtu-mismatch *boolean*

Description Whether the received signaled Layer-2 MTU is ignored

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In case the local advertised l2-mtu and the received remote l2-mtu do not match the pseudowire will be kept operationally down if this command is set to false. When set to true, the received l2-mtu is ignored and the pseudowire can be operationally up even if the local and remote l2-mtu values do not match.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling tldp ignore-mtu-mismatch *boolean*

Tree ignore-mtu-mismatch

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-circuit-type *keyword*

Description The virtual circuit (VC) type of the pseudowire

When set to vlan, the router signals vc-type 'vlan' and pushes vlan tag in the inner frame when sending frames over the pseudowire.

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling tldp virtual-circuit-type *keyword*

Tree virtual-circuit-type

Default ethernet

Options

- ethernet
- vlan

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-circuit-identifier *number*

Description The virtual circuit identifier of the pseudowire

Context network-instance name *string* connection-point name *string* pseudowire name *string* signaling virtual-circuit-identifier *number*

Tree virtual-circuit-identifier

Range 1 to 4294967295

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A user-entered description of this network instance.
Context	network-instance name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

flexible-algorithm

Description	Flex Algorithms definitions and the attributes
Context	network-instance name *string* flexible-algorithm
Tree	flexible-algorithm
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-definitions

Description	Enter the flexible-algorithm-definitions context Flexible Algorithms and their definitions
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions
Tree	flexible-algorithm-definitions
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-definition flex-algo-id *number*

Description	Enter the flex-algo list instance

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Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number*
Tree	flexible-algorithm-definition
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	128

flex-algo-id *number*

Description	Flexible Algorithm Identifier
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number*
Range	128 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the FAD
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calc-type *number*

Description	Indicates the calculation type, if advertised

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Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* calc-type *number*
Tree	calc-type
Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description of this flex-algo
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude *reference*

Description	Extended administrative groups to exclude in path calculation.
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* exclude *reference*
Tree	exclude
Reference	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	256

flags-tlv *boolean*

Description	Advertise flex-algo definition flags

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Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* flags-tlv *boolean*
Tree	flags-tlv
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *reference*

Description	Extended administrative groups for which all must be included
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* include-all *reference*
Tree	include-all
Reference	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	256

include-any *reference*

Description	Extended administrative groups for which at least one omust be included
Context	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* include-any *reference*
Tree	include-any
Reference	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	256

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metric-type *keyword*

Description The metric type used by this flexible Algorithm

Indicates which is the corresponding metric type for this algorithm

Context network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* metric-type *keyword*

Tree metric-type

Default igp

Options

- igp
- delay
- te-metric

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Flexible Algorithm name

Context network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* name *string*

Tree name

String Length 1 to 247

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Indicates the priority for this algorithm

Context network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number* priority *number*

Tree priority

Default 237

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

global-attributes

Description	Enter the global-attributes context Flexible Algorithm global attributes
Context	network-instance name *string* flexible-algorithm global-attributes
Tree	global-attributes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-groups

Description	Enter the extended-admin-groups context Container for configuring admin groups
Context	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups
Tree	extended-admin-groups
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group name *string*

Description	List of admin groups defined for this network instance
Context	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*
Tree	group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	256

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name *string*

Description The name of the admin group

Context network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*

String Length 1 to 247

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bit-position *number*

Description The bit-position value for the admin-group

The value for the admin group is an integer that represents one of the bit positions in the admin-group bitmask.

Context network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string* bit-position *number*

Tree bit-position

Range 0 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-attributes

Description Enter the interface-attributes context

Flexible Algorithm interface attributes

Context network-instance name *string* flexible-algorithm interface-attributes

Tree interface-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface interface-name *string*

Description	List of Flexible Algorithm interfaces
Context	network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Name of the flex-algo interface
Context	network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *reference*

Description	list of admin groups (by name) on the interface
Context	network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string* extended-admin-group *reference*
Tree	extended-admin-group
Reference	network-instance name *string* flexible-algorithm global-attributes extended-admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	256

interface-ref

Description	Enter the interface-ref context

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Reference to a subinterface

Context network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port or LAG

Context network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container.

Context network-instance name *string* flexible-algorithm interface-attributes interface interface-name *string* interface-ref subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-based-policy

Description Container for the micro segmentation Group Based Policy

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Context	network-instance name *string* group-based-policy
Tree	group-based-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

acl

Description	Group Based Policy (GBP) ACL definition for this network-instance
Context	network-instance name *string* group-based-policy acl
Tree	acl
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

entry sequence-id *number*

Description	List of ACL entries
Context	network-instance name *string* group-based-policy acl entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different entries Lower numbered entries are evaluated before higher numbered entries.
Context	network-instance name *string* group-based-policy acl entry sequence-id *number*
Range	1 to 65535
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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action

Description Enter the action context

Container for the actions to be applied to packets matching the filter entry

Context network-instance name *string* group-based-policy acl entry sequence-id *number* action

Tree action

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

accept

Description Accept matching packets and forward them towards their normal destination

Context network-instance name *string* group-based-policy acl entry sequence-id *number* action accept

Tree accept

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

collect-stats *boolean*

Description Collect statistics for each entry of the ACL. If this is set to false no hardware resources are allocated to collecting statistics for this ACL entry.

Context network-instance name *string* group-based-policy acl entry sequence-id *number* action collect-stats *boolean*

Tree collect-stats

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

drop

Description Drop matching packets

Dropped IP packets do not result in sending ICMP messages back to the source

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Context	network-instance name *string* group-based-policy acl entry sequence-id *number* action drop
Tree	drop
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

log *boolean*

Description	When this is true, a log is created for each packet matching the entry For IP packets matched by an IP filter entry the log entry contains the following information:
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* action log *boolean*
Tree	log
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description string for the filter entry
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* description *string*
Tree	description
String Length	1 to 4096
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

match

Description	Enter the match context

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Container for the conditions that determine whether a packet matches this entry

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match

Tree match

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

destination-group *reference*

Description An IPv4 or IPv6 packet matches this condition if its destination groups match the name specified

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-group *reference*

Tree destination-group

Reference network-instance name *string* group-based-policy group name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

Max. Elements 14

destination-port

Description Enter the destination-port context

A packet matches this condition if its destination TCP or UDP port number matches the value or range that is specified

The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port

Tree destination-port

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

operator *keyword*

Description Comparison operator

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eq = equal ge = greater than or equal to le = less than or equal to

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port operator *keyword*

Tree operator

Options

- le

  Less than or equal.

- ge

  Greater than or equal.

- eq

  Equal to.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

range

Description Enter the range context

Container used to specify a contiguous range of TCP/UDP port numbers

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port range

Tree range

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

end *(number | keyword)*

Description The ending port number to include in the range

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol

- afp-tcp

  Apple Filing Protocol over TCP

- arns

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A Remote Network Server System

- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol

- ashare

  AppleShare IP Web Administration

- atalk-rm

  AppleTalk Routing Maintenance

- aurp

  AppleTalk Update-Based Routing Protocol

- auth

  Authentication Service

- bfd

  Bidirectional Forwarding Detection Single Hop

- bfd-echo

  BFD Echo

- bftp

  Background File Transfer Program

- bgmp

  Border Gateway Multicast Protocol

- bgp

  Border Gateway Protocol

- bootpc

  Bootstrap Protocol (BOOTP) Client and DHCP Client

- bootps

  Bootstrap Protocol (BOOTP) Server and DHCP Server

- ccso-ns

  CCSO Nameserver

- chargen

  Character Generator Protocol (CHARGEN)

- cisco-tdp

  Cisco Tag Distribution Protocol

- citadel

  Citadel

- clearcase

  ClearCase albd

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- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data

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- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3

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- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

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Lightweight Directory Access Protocol over TLS/SSL (LDAPS)

- ldp
  Label Distribution Protocol
- lmp
  Link Management Protocol (LMP)
- login
  rlogin (TCP) or Who (UDP)
- lpd
  Line Printer Daemon
- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp

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Message Send Protocol

- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr

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On-Demand Mail Relay (ODMR)

- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd

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SupportSoft Nexus Remote Command

- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp

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Simple Mail Transfer Protocol (SMTP)

- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)

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- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

start *(number | keyword)*

Description The starting port number to include in the range

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port range start *(number | keyword)*

Tree start

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

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Bidirectional Forwarding Detection Single Hop

- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom

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Digital Imaging and Communications in Medicine

- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u

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GTP user data messages (GTP-U)

- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx
  Internetwork Packet Exchange (IPX)
- irc
  Internet Relay Chat (IRC)
- iris-beep
  IRIS (Internet Registry Information Service) over BEEP
- isakmp

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Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)

- isakmp-nat

  IPSec NAT Traversal

- iscsi

  iSCSI

- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol

- kerberos

  Kerberos authentication system

- kerberos-adm

  Kerberos administration

- klogin

  Kerberos login

- kpasswd

  Kerberos Change/Set password

- kshell

  Kerberos Remote shell

- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)

- ldap

  Lightweight Directory Access Protocol (LDAP)

- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)

- ldp

  Label Distribution Protocol

- lmp

  Link Management Protocol (LMP)

- login

  rlogin (TCP) or Who (UDP)

- lpd

  Line Printer Daemon

- lsp-ping

  MPLS LSP-echo

- mac-server-adm

  Mac OS X Server administration

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- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol

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- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)

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- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor

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- rpc2portmap

  Rpc2portmap
- rsync

  rsync file synchronization protocol
- rtelnet

  Remote User Telnet Service (RTelnet)
- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)

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Use subject to Terms available at: www.nokia.com/terms.

- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)
- time
  Time Protocol
- timed
  Timeserver
- ups
  Uninterruptible power supply (UPS)
- xdmcp
  X Display Manager Control Protocol (XDMCP)
- xns-ch
  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail
  Xerox Network Systems (XNS) Mail
- xns-time
  Xerox Network Systems (XNS) Time Protocol
- z3950
  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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value *(number | keyword)*

Description A source port number

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match destination-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

  BFD Echo
- bftp

  Background File Transfer Program
- bgmp

  Border Gateway Multicast Protocol
- bgp

  Border Gateway Protocol
- bootpc

  Bootstrap Protocol (BOOTP) Client and DHCP Client

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- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol

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Use subject to Terms available at: www.nokia.com/terms.

- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)

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Use subject to Terms available at: www.nokia.com/terms.

- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration

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Use subject to Terms available at: www.nokia.com/terms.

- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor

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Use subject to Terms available at: www.nokia.com/terms.

- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts

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Use subject to Terms available at: www.nokia.com/terms.

- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol

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Use subject to Terms available at: www.nokia.com/terms.

- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)

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Use subject to Terms available at: www.nokia.com/terms.

- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission
  Email message submission (SMTP)
- sunrpc
  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc
  Service Location Protocol (SLP)
- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services

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- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

ip-version *keyword*

Description An IPv4 packet matches this condition if the ip-version specified is ipv4, an IPv6 packet matches this condition if the ip-version specified ip ipv6

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match ip-version *keyword*

Tree ip-version

Options

- ipv4

  IPv4 address family
- ipv6

  IPv6 address family

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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protocol *(number | keyword)*

Description An IPv4 or IPv6 packet matches this condition if its IPv4 protocol type field or IPv6 next-header field matches the specified value

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match protocol *(number | keyword)*

Tree protocol

Range 0 to 255

Options

- ipv6-hop
  IPv6 hop-by-hop option
- icmp
  Internet Control Message Protocol
- igmp
  Internet Group Management Protocol
- ggp
  Gateway-to-Gateway Protocol
- ipv4
  IPv4 encapsulation
- st
  Stream Protocol
- tcp
  Transmission Control Protocol
- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation

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- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6
- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol
- mpls-in-ip
  MPLS Encapsulation inside IP
- rohc
  Robust Header Compression

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

source-group *reference*

Description An IPv4 or IPv6 packet matches this condition if its source groups match the name specified

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match source-group *reference*

Tree source-group

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Reference	network-instance name *string* group-based-policy group name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5
Max. Elements	14

source-port

Description	Enter the source-port context A packet matches this condition if its source TCP or UDP port number matches the value or range that is specified The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port
Tree	source-port
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

operator *keyword*

Description	Comparison operator eq = equal ge = greater than or equal to le = less than or equal to
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port operator *keyword*
Tree	operator
Options	• le Less than or equal. • ge Greater than or equal. • eq Equal to.
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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range

Description Enter the range context

Container used to specify a contiguous range of TCP/UDP port numbers

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port range

Tree range

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

end *(number | keyword)*

Description The ending port number to include in the range

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop

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Use subject to Terms available at: www.nokia.com/terms.

- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine

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- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)

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Use subject to Terms available at: www.nokia.com/terms.

- ha-cluster

  Linux-HA high-availability heartbeat
- hostname

  NIC hostname server
- hp-alarm-mgr

  HP data alarm manager
- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)

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Use subject to Terms available at: www.nokia.com/terms.

- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A

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- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol

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- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)

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- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap

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- rsync

  rsync file synchronization protocol
- rtelnet

  Remote User Telnet Service (RTelnet)
- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)

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- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

start *(number | keyword)*

Description The starting port number to include in the range

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port range start *(number | keyword)*

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Tree start

Range 0 to 65535

Options

- acap
  Application Configuration Access Protocol
- afp-tcp
  Apple Filing Protocol over TCP
- arns
  A Remote Network Server System
- asf-rmcp
  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare
  AppleShare IP Web Administration
- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen

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Character Generator Protocol (CHARGEN)

- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec

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Remote Process Execution (Rexec)

- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https

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Hypertext Transfer Protocol over TLS/SSL

- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password

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Use subject to Terms available at: www.nokia.com/terms.

- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor
- mpp

  Message posting protocol (MPP)
- mssql-m

  Microsoft SQL Server database management system (MSSQL) monitor

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Use subject to Terms available at: www.nokia.com/terms.

- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)

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Use subject to Terms available at: www.nokia.com/terms.

- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol

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Use subject to Terms available at: www.nokia.com/terms.

- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server

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Use subject to Terms available at: www.nokia.com/terms.

- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol

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Use subject to Terms available at: www.nokia.com/terms.

- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

value *(number | keyword)*

Description A source port number

Context network-instance name *string* group-based-policy acl entry sequence-id *number* match source-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

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AppleTalk Routing Maintenance

- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client

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DHCPv6 Client

- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher

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Gopher protocol

- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx

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Use subject to Terms available at: www.nokia.com/terms.

Internetwork Packet Exchange (IPX)

- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)

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Use subject to Terms available at: www.nokia.com/terms.

- lpd
  Line Printer Daemon
- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol

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Use subject to Terms available at: www.nokia.com/terms.

- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP

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- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol

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- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol

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Use subject to Terms available at: www.nokia.com/terms.

- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

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ANSI Z39.50

Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tcp-flags *string*

Description	A logical expression using the &, | and ! logical operators and the TCP flag names: rst, syn and ack
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* match tcp-flags *string*
Tree	tcp-flags
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context Container for per-entry statistics
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

incomplete *boolean*

Description	Returns true when at least one linecard had insufficient stats resources to ensure an accurate set of values for the number of matched packets
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics incomplete *boolean*
Tree	incomplete
Configurable	False
Platforms	Supported on all platforms

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last-clear *string*

Description	Time of the last clear command performed by the user at this level or a higher level
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

last-match *string*

Description	The elapsed time since a packet last matched the entry, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics last-match *string*
Tree	last-match
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

matched-packets *number*

Description	The number of packets matching the entry since it was programmed or since the last clear, considering the mgmt0 subinterface and all subinterfaces of all linecard ports that use the ACL as an input ACL
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics matched-packets *number*
Tree	matched-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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policer

Description	Enter the policer context Policer stats for traffic matching the entry: Statistics for policer configured with scope=global and entry-specific=true, and acl configured with subinterface-specific=false.
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics policer
Tree	policer
Configurable	False
Platforms	acl-group-based-policy-policer and not vsrl

conforming-octets *number*

Description	The number of bytes that were considered conforming by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics policer conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	acl-group-based-policy-policer and not vsrl

conforming-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered conforming by the policer
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics policer conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	acl-group-based-policy-policer and not vsrl

exceeding-octets *number*

Description	The number of bytes that were considered exceeding by the policer. The byte count includes 18 bytes of Ethernet overhead for every IP packet.

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Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics policer exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	acl-group-based-policy-policer and not vsrl

exceeding-packets *number*

Description	The number of packets (actually Ethernet frames) that were considered exceeding by the policer
Context	network-instance name *string* group-based-policy acl entry sequence-id *number* statistics policer exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	acl-group-based-policy-policer and not vsrl

statistics

Description	Enter the statistics context
Context	network-instance name *string* group-based-policy acl statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

group name *string*

Description	List of groups in the Group Based Policy
Context	network-instance name *string* group-based-policy group name *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5
Max. Elements	65534

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name *string*

Description	The name of the group
Context	network-instance name *string* group-based-policy group name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tag-value *number*

Description	The tag value associated to this group
Context	network-instance name *string* group-based-policy group name *string* tag-value *number*
Tree	tag-value
Range	0 to 65535
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface interface-name *string*

Description	List of subinterfaces part of this network-instance with their group association
Context	network-instance name *string* group-based-policy interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* group-based-policy interface interface-name *string*
String Length	5 to 27
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

group *reference*

Description	List of groups associated to the subinterface
Context	network-instance name *string* group-based-policy interface interface-name *string* group *reference*
Tree	group
Reference	network-instance name *string* group-based-policy group name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

icmp

Description	Enter the icmp context
Context	network-instance name *string* icmp
Tree	icmp
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context ICMP version 4 statistics
Context	network-instance name *string* icmp statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Timestamp of the last time the interface counters were cleared.
Context	network-instance name *string* icmp statistics last-clear *string*
Tree	last-clear

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

total

Description	Enter the total context Aggregate statistics, counting all ICMP message types
Context	network-instance name *string* icmp statistics total
Tree	total
Configurable	False
Platforms	Supported on all platforms

in-error-packets *number*

Description	The number of ICMPv4 messages that the network instance received and extracted successfully to the CPM but when they arrived they were determined to have ICMP-specific errors (bad ICMP checksums, bad length, etc.)
Context	network-instance name *string* icmp statistics total in-error-packets *number*
Tree	in-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-packets *number*

Description	The total number of ICMPv4 messages that the network instance received and extracted successfully to the CPM Note that this counter includes all those counted by in-error-packets.
Context	network-instance name *string* icmp statistics total in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

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out-error-packets *number*

Description	The number of ICMPv4 messages that could not be sent from this network instance due to issues such as 'no route to the source' or 'fragmentation required but not supported'
Context	network-instance name *string* icmp statistics total out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-packets *number*

Description	The total number of ICMPv4 messages that the network instance attempted to send Note that this counter includes all those counted by out-error-packets.
Context	network-instance name *string* icmp statistics total out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

type name *keyword*

Description	Enter the type list instance
Context	network-instance name *string* icmp statistics type name *keyword*
Tree	type
Configurable	False
Platforms	Supported on all platforms

name *keyword*

Description	Enter the name context
Context	network-instance name *string* icmp statistics type name *keyword*
Options	• echo-reply • dest-unreachable

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- redirect
- echo
- rtr-advertisement
- rtr-selection
- time-exceeded
- param-problem
- timestamp
- timestamp-reply

Configurable False

Platforms Supported on all platforms

in-packets *number*

Description The total number of ICMPv4 messages of this type that the network instance received and extracted successfully to the CPM.

Context network-instance name *string* icmp statistics type name *keyword* in-packets *number*

Tree in-packets

Default 0

Configurable False

Platforms Supported on all platforms

out-error-packets *number*

Description The number of ICMPv4 messages of this type that could not be sent from this network instance due to issues such as 'no route to the source' or 'fragmentation required but not supported'

Context network-instance name *string* icmp statistics type name *keyword* out-error-packets *number*

Tree out-error-packets

Default 0

Configurable False

Platforms Supported on all platforms

out-packets *number*

Description The total number of ICMPv4 messages of this type that the network instance attempted to send.

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Context	network-instance name *string* icmp statistics type name *keyword* out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

icmp6

Description	Enter the icmp6 context
Context	network-instance name *string* icmp6
Tree	icmp6
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context ICMP version 6 statistics
Context	network-instance name *string* icmp6 statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Timestamp of the last time the interface counters were cleared.
Context	network-instance name *string* icmp6 statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

total

Description	Enter the total context

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Aggregate statistics, counting all ICMP message types

Context	network-instance name *string* icmp6 statistics total
Tree	total
Configurable	False
Platforms	Supported on all platforms

in-error-packets *number*

Description	The number of ICMPv6 messages that the network instance received and extracted successfully to the CPM but when they arrived they were determined to have ICMP-specific errors (bad ICMP checksums, bad length, etc.)
Context	network-instance name *string* icmp6 statistics total in-error-packets *number*
Tree	in-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-packets *number*

Description	The total number of ICMPv6 messages that the network instance received and extracted successfully to the CPM. Note that this counter includes all those counted by in-error-packets.
Context	network-instance name *string* icmp6 statistics total in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-error-packets *number*

Description	The number of ICMPv6 messages that could not be sent from this network instance due to issues such as 'no route to the source'
Context	network-instance name *string* icmp6 statistics total out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False

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Platforms	Supported on all platforms

out-packets *number*

Description	The total number of ICMPv6 messages that the network instance attempted to send. Note that this counter includes all those counted by out-error-packets.
Context	network-instance name *string* icmp6 statistics total out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

type name *keyword*

Description	Enter the type list instance
Context	network-instance name *string* icmp6 statistics type name *keyword*
Tree	type
Configurable	False
Platforms	Supported on all platforms

name *keyword*

Description	Enter the name context
Context	network-instance name *string* icmp6 statistics type name *keyword*
Options	• dest-unreachable • packet-too-big • time-exceeded • param-problem • echo-request • echo-reply • rtr-solicitation • rtr-advertisement • nbr-solicitation • nbr-advertisement • redirect

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Configurable	False
Platforms	Supported on all platforms

in-packets *number*

Description	The total number of ICMPv6 messages of this type that the network instance received and extracted successfully to the CPM.
Context	network-instance name *string* icmp6 statistics type name *keyword* in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-error-packets *number*

Description	The number of ICMPv6 messages of this type that could not be sent from this network instance due to issues such as 'no route to the source'
Context	network-instance name *string* icmp6 statistics type name *keyword* out-error-packets *number*
Tree	out-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-packets *number*

Description	The total number of ICMPv6 messages of this type that the network instance attempted to send.
Context	network-instance name *string* icmp6 statistics type name *keyword* out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

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inter-instance-policies

Description Enter the inter-instance-policies context

Policies for leaking routes between this network instance and other network instances

Context network-instance name *string* inter-instance-policies

Tree inter-instance-policies

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

apply-policy

Description Enter the apply-policy context

Container for specifying route leaking import and export policies

Context network-instance name *string* inter-instance-policies apply-policy

Tree apply-policy

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-policy *reference*

Description Chained sequence of policies used to specify the routes of this NI that should be made available for leaking to other NIs

Context network-instance name *string* inter-instance-policies apply-policy export-policy *reference*

Tree export-policy

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Reference	routing-policy policy name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

import-policy *reference*

Description	Chained sequence of policies used to specify the routes leaked by other NIs that should be imported into this NI
Context	network-instance name *string* inter-instance-policies apply-policy import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

interface name *string*

Description	List of subinterfaces used by this network-instance
Context	network-instance name *string* interface name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

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name *string*

Description	Name of the subinterface bound to this network-instance
Context	network-instance name *string* interface name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

bridge-table

Description	Enable the bridge-table context
Context	network-instance name *string* interface name *string* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-relearn-only *boolean*

Description	The value of this leaf indicates that the interface will not learn any new mac addresses, but will relearn any that are already programmed
Context	network-instance name *string* interface name *string* bridge-table mac-relearn-only *boolean*
Tree	mac-relearn-only
Default	true
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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multicast-forwarding *keyword*

Description The type of multicast data forwarded by this subinterface.

Context network-instance name *string* interface name *string* bridge-table multicast-forwarding *keyword*

Tree multicast-forwarding

Options

- none
- BUM
- unknown-unicast
- broadcast-mcast
- mcast

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mac-learning *keyword*

Description The operational state of mac-learning on this subinterface.

Context network-instance name *string* interface name *string* bridge-table oper-mac-learning *keyword*

Tree oper-mac-learning

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

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Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mac-learning-disabled-reason *keyword*

Description The reason for the mac-learning being disabled on this interface

Context network-instance name *string* interface name *string* bridge-table oper-mac-learning-disabled-reason *keyword*

Tree oper-mac-learning-disabled-reason

Options

- admin-disabled
- mac-dup-detected

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-

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64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

split-horizon-group *reference*

Description	Enter the split-horizon-group context
Context	network-instance name *string* interface name *string* bridge-table split-horizon-group *reference*
Tree	split-horizon-group
Reference	network-instance name *string* bridge-table split-horizon-group name *string*
Configurable	True
Platforms	Supported on 7220 IXR-Dx, 7215 IXS-A1, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5 platforms

connection-point *reference*

Description	Enter the connection-point context
Context	network-instance name *string* interface name *string* connection-point *reference*
Tree	connection-point
Reference	network-instance name *string* connection-point name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	network instance allocated sub interface index
Context	network-instance name *string* interface name *string* index *number*
Tree	index
Default	0
Configurable	False
Platforms	Supported on all platforms

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interface-ref

Description Enter the interface-ref context

Reference to a subinterface

Context network-instance name *string* interface name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port or LAG

Context network-instance name *string* interface name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.

Context network-instance name *string* interface name *string* interface-ref subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number*

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description	Enter the mpls context Per-interface MPLS packet reception settings. When configured, this overrides the network-instance level mpls-forwarding forward-received-packets setting for this specific interface. If the mpls container is not configured for an interface, its MPLS packet reception behavior is controlled by the network-instance level mpls-forwarding forward-received-packets setting.
Context	network-instance name *string* interface name *string* mpls
Tree	mpls
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-received-packets *boolean*

Description	Per-interface MPLS packet reception control When set to true, MPLS packets received on this interface are forwarded according to matching ILM entries. When set to false, MPLS packets received on this interface are discarded. In the default network-instance, the default value is true. In an ip-vrf network-instance, the only supported value is false.
Context	network-instance name *string* interface name *string* mpls forward-received-packets *boolean*
Tree	forward-received-packets
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-down-reason *keyword*

Description The reason for the interface being down in the network-instance

Context network-instance name *string* interface name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- ip-addr-missing
- ip-addr-overlap
- subif-down
- net-inst-down
- vrf-type-mismatch
- mac-dup-detected
- associated-mac-vrf-down
- mac-vrf-association-missing
- ip-vrf-association-missing
- associated-ip-vrf-down
- evpn-mh-standby
- interface-ref-missing
- stp-not-forwarding

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of this subinterface.

Context network-instance name *string* interface name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

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Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

ip-load-balancing

Description Enter the ip-load-balancing context

Container for IP load-balancing options that are specific to the network-instance

Context network-instance name *string* ip-load-balancing

Tree ip-load-balancing

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp,

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7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-load-balancing

Description	Enter the dynamic-load-balancing context
Context	network-instance name *string* ip-load-balancing dynamic-load-balancing
Tree	dynamic-load-balancing
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of IPv4 and IPv6 prefixes that should be programmed for dynamic load-balancing
Context	network-instance name *string* ip-load-balancing dynamic-load-balancing prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	IPv4 or IPv6 prefix. Active routes in the FIB that are covered by this prefix are programmed with DLB if conditions permit
Context	network-instance name *string* ip-load-balancing dynamic-load-balancing prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

resilient-hash-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of IPv4 and IPv6 prefixes which should be programmed for resilient ECMP hashing.

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Context	network-instance name *string* ip-load-balancing resilient-hash-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	resilient-hash-prefix
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	IPv4 or IPv6 prefix. Active routes in the FIB that exactly match this prefix or that are longer matches of this prefix are provided with resilient-hash programming.
Context	network-instance name *string* ip-load-balancing resilient-hash-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash-buckets-per-path *number*

Description	The number of times each next-hop is repeated in the fill pattern if there are max-paths ECMP next-hops A larger number consumes more resources but provides more granularity when flows need to be moved. There is a platform-specific limit to the product of this hash-buckets-per-path value and the max-paths value.
Context	network-instance name *string* ip-load-balancing resilient-hash-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* hash-buckets-per-path *number*
Tree	hash-buckets-per-path
Range	1 to 32
Default	1
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-paths *number*

Description The maximum number of ECMP next-hops per route associated with the resilient-hash prefix

If a matching route has more than this number of ECMP next-hops only the first N are used, where N is the value of this parameter. There is a platform-specific limit to the product of this max-paths value and the hash-buckets-per-path value.

Context network-instance name *string* ip-load-balancing resilient-hash-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* max-paths *number*

Tree max-paths

Range 1 to 64

Default 1

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-tunnel-statistics

Description Enter the ip-tunnel-statistics context

Configuration options for controlling the collection of statistics for certain types of IP tunnels

Context network-instance name *string* ip-tunnel-statistics

Tree ip-tunnel-statistics

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-in-ip-forwarded *boolean*

Description True enables the collection of per-prefix statistics for forwarded IP-in-IP tunnel packets

This applies only to host routes programmed by gRIBI.

Context network-instance name *string* ip-tunnel-statistics ip-in-ip-forwarded *boolean*

Tree ip-in-ip-forwarded

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enable the mpls context

Context network-instance name *string* mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp-tunneling *boolean*

Description When enabled, ICMP messages generated by the router acting in the role of a transit LSR are injected in the forward direction of the LSP, to be turned around and sent back to the sender of the IP payload by the egress LER.

If a transit LSR receives an MPLS packet that cannot be forwarded (e.g. label TTL has expired, or the egress subinterface MPLS MTU was exceeded) and the MPLS packet has an IP payload, the router will generate an appropriate ICMP error message. When icmp-tunneling is 'false' the ICMP error message is dropped if there is no IP route back to the source in the network-instance that received the MPLS packet.

Context network-instance name *string* mpls icmp-tunneling *boolean*

Tree icmp-tunneling

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lsps

Description Enter the lsps context

Configuration and state related to MPLS label switched paths

Context network-instance name *string* mpls lsps

Tree lsps

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

constrained-path

Description Top-level configuration and operational state for Constrained Path Tunnels

Context network-instance name *string* mpls lsps constrained-path

Tree constrained-path

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Execute the clear action

When invoked without input, bounce admin state for the constrained path tunnel(s) and clear counters and certain timestamps (up-time, down-time, age, last-change etc.).

When invoked with the tunnel-history input leaf, clear the recorded history of LSP events for constrained path tunnel(s).

Context network-instance name *string* mpls lsps constrained-path clear

Tree clear

Configurable True

Note This is an action command

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-history

Description Clear constrained path tunnel history

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Clears the recorded history of LSP events for constrained path tunnel(s).

Context network-instance name *string* mpls lsps constrained-path clear tunnel-history

Tree tunnel-history

Configurable True

Note This is an action input

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-fec-to-next-hop-info

Description Execute the dump-fec-to-next-hop-info action

Dump information about the FEC to next hop

Context network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info

Tree dump-fec-to-next-hop-info

Configurable True

Note This is an action command

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description The IP address of the endpoint of the FEC.

Context network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info destination *string*

Tree destination

Configurable True

Note This is an action input

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

label

Description Enter the label context Filter FEC entries by MPLS label range.

Context network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info label

Tree label

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Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-label *(number | keyword)*

Description	The end label of the label range.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info label end-label *(number | keyword)*
Tree	end-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-label *(number | keyword)*

Description	The start label of the label range.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info label start-label *(number | keyword)*
Tree	start-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lsp-id *number*

Description	The LSP ID of the FEC.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info lsp-id *number*
Tree	lsp-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *string*

Description	The IP address of the next hop of the FEC.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info next-hop *string*
Tree	next-hop
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	The IP address of the sender of the FEC.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info source *string*
Tree	source
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.

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Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	The tunnel ID of the FEC.
Context	network-instance name *string* mpls lsps constrained-path dump-fec-to-next-hop-info tunnel-id *number*
Tree	tunnel-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-ilm-info

Description	Execute the dump-ilm-info action Dump information about the ILM
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info
Tree	dump-ilm-info

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Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description	The IP address of the destination of the LSP for the ILM.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info destination *string*
Tree	destination
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

label

Description	Enter the label context Filter ILM entries by MPLS label range.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info label
Tree	label
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-label *(number | keyword)*

Description	The end label of the label range.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info label end-label *(number | keyword)*
Tree	end-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL

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Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-label *(number | keyword)*

Description	The start label of the label range.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info label start-label *(number | keyword)*
Tree	start-label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description	The LSP ID of the LSP for the ILM.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info lsp-id *number*
Tree	lsp-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *string*

Description	The IP address of the next hop of the LSP for the ILM.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info next-hop *string*

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Tree	next-hop
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	The IP address of the source of the LSP for the ILM.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info source *string*
Tree	source
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tunnel-id *number*

Description	The tunnel ID of the LSP for the ILM.
Context	network-instance name *string* mpls lsps constrained-path dump-ilm-info tunnel-id *number*
Tree	tunnel-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-te-tunnel-info

Description	Execute the dump-te-tunnel-info action Dump TE information about the constrained path tunnel
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info
Tree	dump-te-tunnel-info
Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description	The IP address of the source of the TE tunnel.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info destination *string*
Tree	destination
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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detail

Description	If set, the TE tunnel information will be dumped in detail.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info detail
Tree	detail
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description	The LSP ID of the TE tunnel.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info lsp-id *number*
Tree	lsp-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	The IP address of the sender of the TE tunnel.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info source *string*
Tree	source
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.

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Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	The tunnel ID of the TE tunnel.
Context	network-instance name *string* mpls lsps constrained-path dump-te-tunnel-info tunnel-id *number*
Tree	tunnel-id
Range	1 to 65535
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-tunnel-info

Description	Execute the dump-tunnel-info action Dump information about the constrained path tunnels
Context	network-instance name *string* mpls lsps constrained-path dump-tunnel-info
Tree	dump-tunnel-info

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Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail

Description	If set, the constrained path tunnel information will be dumped in detail.
Context	network-instance name *string* mpls lsps constrained-path dump-tunnel-info detail
Tree	detail
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	network-instance name *string* mpls lsps constrained-path dump-tunnel-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path dump-tunnel-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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global

Description	Enter the global context
Context	network-instance name *string* mpls lsps constrained-path global
Tree	global
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exponential-backoff-retry *boolean*

Description	Use exponential back-off timer when retrying an LSP
Context	network-instance name *string* mpls lsps constrained-path global exponential-backoff-retry *boolean*
Tree	exponential-backoff-retry
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-reroute

Description	Enter the fast-reroute context
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute
Tree	fast-reroute
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group-frr *boolean*

Description	Use admin group constraints for FRR path computation
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute admin-group-frr *boolean*
Tree	admin-group-frr
Default	false
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bypass-next-reoptimization-time *string*

Description	Next reoptimization time for bypass tunnels.
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute bypass-next-reoptimization-time *string*
Tree	bypass-next-reoptimization-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bypass-reoptimization-timer *number*

Description	Reoptimization timer for RSVP-TE bypass tunnels. When not configured, periodic reoptimization and tools reoptimize delay are not in effect.
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute bypass-reoptimization-timer *number*
Tree	bypass-reoptimization-timer
Range	1 to 10800
Units	minutes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-bypass-tunnel-info

Description	Execute the dump-bypass-tunnel-info action Dump information about the bypass tunnel
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute dump-bypass-tunnel-info
Tree	dump-bypass-tunnel-info
Configurable	True
Note	This is an action command

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bypass-tunnel-name *string*

Description	Name of the bypass tunnel.
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute dump-bypass-tunnel-info bypass-tunnel-name *string*
Tree	bypass-tunnel-name
String Length	1 to 160
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute dump-bypass-tunnel-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute dump-bypass-tunnel-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dynamic-bypass *boolean*

Description	Create dynamic bypass LSPs in FRR
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute dynamic-bypass *boolean*
Tree	dynamic-bypass
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-bypass-associations *number*

Description	Maximum number of LSPs associated with a bypass tunnel
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute max-bypass-associations *number*
Tree	max-bypass-associations
Range	100 to 131072
Default	1000
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-bypass-plr-associations *number*

Description	Maximum number of PLRs per RSVP-TE bypass LSP
Context	network-instance name *string* mpls lsps constrained-path global fast-reroute max-bypass-plr-associations *number*
Tree	max-bypass-plr-associations
Range	1 to 16
Default	16
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srlg-frr *keyword*

Description Use of SRLG constraint for FRR path computation

Context network-instance name *string* mpls lsps constrained-path global fast-reroute srlg-frr *keyword*

Tree srlg-frr

Options

- loose

  Use loose SRLG constraint for FRR path computation

- strict

  Use strict SRLG constraint for FRR path computation

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-retry

Description Enter the fast-retry context

Context network-instance name *string* mpls lsps constrained-path global fast-retry

Tree fast-retry

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-active-path-fast-retry-timer *number*

Description Fast retry timer for active path of P2P tunnel

Context network-instance name *string* mpls lsps constrained-path global fast-retry p2p-active-path-fast-retry-timer *number*

Tree p2p-active-path-fast-retry-timer

Range 1 to 10

Units seconds

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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p2p-secondary-path-fast-retry-timer *number*

Description	Fast retry timer for secondary path of P2P tunnel
Context	network-instance name *string* mpls lsps constrained-path global fast-retry p2p-secondary-path-fast-retry-timer *number*
Tree	p2p-secondary-path-fast-retry-timer
Range	1 to 10
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-timer *(number | keyword)*

Description	The delay before the head-end LER programs its data plane and declares the tunnel UP
Context	network-instance name *string* mpls lsps constrained-path global hold-timer *(number | keyword)*
Tree	hold-timer
Range	1 to 1000
Default	1
Units	seconds
Options	• disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

least-fill

Description	Enter the least-fill context
Context	network-instance name *string* mpls lsps constrained-path global least-fill
Tree	least-fill
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-threshold *number*

Description	Least-fill minimum threshold value.
Context	network-instance name *string* mpls lsps constrained-path global least-fill min-threshold *number*
Tree	min-threshold
Range	0 to 100
Default	5
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

reoptimization-threshold *number*

Description	Least-fill reoptimization threshold value.
Context	network-instance name *string* mpls lsps constrained-path global least-fill reoptimization-threshold *number*
Tree	reoptimization-threshold
Range	0 to 100
Default	10
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping

Description	Enter the lsp-self-ping context
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping
Tree	lsp-self-ping
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable *boolean*

Description	Enable LSP Self Ping for RSVP-TE constrained path tunnels.

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Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping enable *boolean*
Tree	enable
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	Interval at which LSP Self Ping packets are sent while waiting for a reply.
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-oam-resource-failures *number*

Description	Number of times LSP self ping failed due to an OAM resource failure.
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping lsp-self-ping-oam-resource-failures *number*
Tree	lsp-self-ping-oam-resource-failures
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-timeouts *number*

Description	The number of constrained path tunnels/paths which have experienced lsp self ping timeouts.
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping lsp-self-ping-timeouts *number*

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Tree	lsp-self-ping-timeouts
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	Maximum time to wait for the first LSP Self Ping reply.
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping timeout *number*
Tree	timeout
Range	3 to 3600
Default	300
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout-action *keyword*

Description	Action to take when a LSP Self Ping timer expires.
Context	network-instance name *string* mpls lsps constrained-path global lsp-self-ping timeout-action *keyword*
Tree	timeout-action
Default	retry
Options	• retry Retry the LSP path. • switch Switch to the LSP path.
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

mbb-prefer-current-hops *boolean*

Description	Select preference to use the current hops for Make-Before-Break (MBB)

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Context	network-instance name *string* mpls lsps constrained-path global mbb-prefer-current-hops *boolean*
Tree	mbb-prefer-current-hops
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-history

Description	Enter the tunnel-history context
Context	network-instance name *string* mpls lsps constrained-path global tunnel-history
Tree	tunnel-history
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of tunnel history recording
Context	network-instance name *string* mpls lsps constrained-path global tunnel-history admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-init-retry-timeout *number*

Description	Initial retry timeout for tunnel path state
Context	network-instance name *string* mpls lsps constrained-path global tunnel-init-retry-timeout *number*
Tree	tunnel-init-retry-timeout

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Range	10 to 600
Default	30
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-reoptimization

Description	Enter the tunnel-reoptimization context
Context	network-instance name *string* mpls lsps constrained-path global tunnel-reoptimization
Tree	tunnel-reoptimization
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-next-reoptimization-time *string*

Description	Next reoptimization time for P2P RSVP-TE tunnels.
Context	network-instance name *string* mpls lsps constrained-path global tunnel-reoptimization p2p-next-reoptimization-time *string*
Tree	p2p-next-reoptimization-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-reoptimization-timer *number*

Description	Reoptimization timer for point-to-point RSVP-TE tunnels. When not configured, periodic reoptimization and tools reoptimize delay are not in effect.
Context	network-instance name *string* mpls lsps constrained-path global tunnel-reoptimization p2p-reoptimization-timer *number*
Tree	p2p-reoptimization-timer
Range	30 to 10800
Units	minutes

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

named-explicit-path path-name *string*

Description	Named paths used to specify the explicit route for paths belonging to constrained path tunnels
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string*
Tree	named-explicit-path
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-name *string*

Description	Name of the explicit path
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string*
String Length	1 to 64
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the explicit path
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hop index *number*

Description	Enter the hop list instance
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* hop index *number*
Tree	hop
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	255

index *number*

Description	Index to identify a particular path hop
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* hop index *number*
Range	1 to 1024
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	IP address of the hop
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* hop index *number* ip-address *string*
Tree	ip-address
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Type of the hop
Context	network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* hop index *number* type *keyword*
Tree	type
Options	• strict

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- loose

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the named explicit path.

Context network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel tunnel-name *string*

Description List of RSVP-TE tunnels

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string*

Tree tunnel

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-name *string*

Description Name of the RSVP-TE tunnel

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string*

String Length 1 to 64

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

adaptive *boolean*

Description Enable make-before-break functionality

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* adaptive *boolean*

Tree adaptive

Default true

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group-constraints

Description	Enter the admin-group-constraints context Admin group constraints
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* admin-group-constraints
Tree	admin-group-constraints
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-all *reference*

Description	List of references to named admin groups which must be excluded in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* admin-group-constraints exclude-all *reference*
Tree	exclude-all
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

include-any *reference*

Description	List of references to named admin groups any of which must be included in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* admin-group-constraints include-any *reference*
Tree	include-any
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

admin-state *keyword*

Description	Administrative state of the tunnel
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Execute the clear action When invoked without input, bounce admin state for the constrained path tunnel(s) and clear counters and certain timestamps (up-time, down-time, age, last-change etc.). When invoked with the tunnel-history input leaf, clear the recorded history of LSP events for constrained path tunnel(s).
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* clear
Tree	clear
Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-history

Description	Clear constrained path tunnel history Clears the recorded history of LSP events for constrained path tunnel(s).

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* clear tunnel-history
Tree	tunnel-history
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

create-time *string*

Description	Time when this tunnel was created.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* create-time *string*
Tree	create-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-tunnel-history

Description	Execute the dump-tunnel-history action Dump information about the LSP history
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-history
Tree	dump-tunnel-history
Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-history srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False

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Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-history srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-tunnel-info

Description	Execute the dump-tunnel-info action Dump information about the constrained path tunnels
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-info
Tree	dump-tunnel-info
Configurable	True
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail

Description	If set, the constrained path tunnel information will be dumped in detail.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-info detail
Tree	detail
Configurable	True
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-info srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* dump-tunnel-info srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-reroute

Description	Enter the fast-reroute context
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* fast-reroute
Tree	fast-reroute
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description	Total number of additional hops backup tunnel can take
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* fast-reroute hop-limit *number*
Tree	hop-limit

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Range	0 to 255
Default	16
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-protect *boolean*

Description	Enable node protection
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* fast-reroute node-protect *boolean*
Tree	node-protect
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

propagate-admin-group *boolean*

Description	Enable propagation of admin group constraints in fast reroute object
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* fast-reroute propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description	Maximum number of hops that the tunnel can traverse including ingress and egress routers
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Default	255
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-change-time *string*

Description	Time when operational state of this tunnel last changed.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* last-oper-change-time *string*
Tree	last-oper-change-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description	Metric type used for path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* metric-type *keyword*
Tree	metric-type
Default	igp
Options	• igp • te
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the TE Tunnel
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational

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- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-changes *number*

Description Number of operational state transitions for this tunnel.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* oper-state-changes *number*

Tree oper-state-changes

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-tunnel-attributes

Description	Container for P2P tunnel parameters
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes
Tree	p2p-tunnel-attributes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-path *string*

Description	Active path for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes active-path *string*
Tree	active-path
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

adspec *boolean*

Description	Include ADSPEC object in RSVP messages
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes adspec *boolean*
Tree	adspec
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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configured-paths *number*

Description	Number of paths configured for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes configured-paths *number*
Tree	configured-paths
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *string*

Description	Destination address for the P2P tunnel
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes destination *string*
Tree	destination
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-path-change-time *string*

Description	Time when the active path for this tunnel last changed.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes last-path-change-time *string*
Tree	last-path-change-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

least-fill *boolean*

Description	Enable least-fill path selection method.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes least-fill *boolean*
Tree	least-fill
Default	false

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping *boolean*

Description	Enable LSP Self Ping for this constrained path tunnel. If no value is configured, the setting is inherited from the global configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes lsp-self-ping *boolean*
Tree	lsp-self-ping
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-oam-resource-failures *number*

Description	Number of times LSP self ping failed due to an OAM resource failure.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes lsp-self-ping-oam-resource-failures *number*
Tree	lsp-self-ping-oam-resource-failures
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-timeouts *number*

Description	The number of paths/networks which have experienced lsp self ping timeouts for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes lsp-self-ping-timeouts *number*
Tree	lsp-self-ping-timeouts
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description	Force the P2P tunnel metric to a constant value
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes metric *number*
Tree	metric
Range	1 to 16777215
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-metric *number*

Description	Operational metric for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes oper-metric *number*
Tree	oper-metric
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-paths *number*

Description	Number of operational paths for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes operational-paths *number*
Tree	operational-paths
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-primary p2p-path-name *string*

Description	Enter the primary list instance
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string*
Tree	p2p-primary
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

p2p-path-name *string*

Description	P2P path name
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string*
String Length	1 to 64
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

adaptive *boolean*

Description	Enable make-before-break functionality. If no value is configured, the setting is inherited from the tunnel configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* adaptive *boolean*
Tree	adaptive
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group-constraints

Description	Enter the admin-group-constraints context Admin group constraints for the P2P path. If include-any or exclude-all is empty or not configured, that constraint is inherited from the tunnel configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* admin-group-constraints
Tree	admin-group-constraints
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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exclude-all *reference*

Description	List of references to named admin groups which must be excluded in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* admin-group-constraints exclude-all *reference*
Tree	exclude-all
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

include-any *reference*

Description	List of references to named admin groups any of which must be included in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* admin-group-constraints include-any *reference*
Tree	include-any
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

admin-state *keyword*

Description	Administrative state of the P2P path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable

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- disable

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description Amount of bandwidth to be reserved

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* bandwidth *number*

Tree bandwidth

Range 0 to 6400000

Default 0

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-hop-list

Description Enter the computed-hop-list context

Computed hop list for this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list

Tree computed-hop-list

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description Enter the hop list instance

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number*

Tree hop

Configurable False

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Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description Index of hop within the list.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number*

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

abr *boolean*

Description Hop is an Area Border Router (ABR).

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* abr *boolean*

Tree abr

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description Hop type.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* hop-type *keyword*

Tree hop-type

Options

- ipv4

  IPv4 hop type.

- unnumbered

  Unnumbered hop type.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *(ipv4-address | ipv6-address)*

Description	IP Address of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

loose *boolean*

Description	Hop is loose.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* loose *boolean*
Tree	loose
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface-admin-group *number*

Description	Administrative groups on the outgoing interface for this hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* out-interface-admin-group *number*
Tree	out-interface-admin-group
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description	Router ID of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string*

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	computed-hop-list hop hop-index *number* router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description	Unnumbered interface identifier of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-hop-list hop hop-index *number* unnumbered-if-id *number*
Tree	unnumbered-if-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-metric *number*

Description	Metric of the traffic engineered path returned by the IGP.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* computed-metric *number*
Tree	computed-metric
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

degraded *boolean*

Description	Tunnel path is in degraded state.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* degraded *boolean*
Tree	degraded
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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degraded-reason *bits*

Description Reason for tunnel path being in degraded state.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* degraded-reason *bits*

Tree degraded-reason

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-path-name *reference*

Description Name of the explicit path to use

If no value is configured, then an empty path is used.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* explicit-path-name *reference*

Tree explicit-path-name

Reference network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for tunnel path failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP

- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP

- no-route-to-destination

  No route could be found toward the requested destination

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- traffic-control-system-error

  An error in the traffic control system due to an unsupported traffic parameter

- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.

- no-resources-available

  Insufficient system or protocol resources available to complete the request

- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.

- routing-loop

  A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

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- srlg-secondary-not-disjoint

  The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

  A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

  The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

  MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

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- path-retried

  LSP path was brought down and retried.
- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.
- auto-bandwidth-adjustment

  For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.
- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.
- lsp-self-ping-timeout

  LSP self-ping timed out.
- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.
- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.
- resv-timeout

  RESV state timed out for RSVP-TE LSP.
- resv-tear

  ResvTear message received for RSVP-TE LSP.
- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.
- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.
- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-node-address *(ipv4-address | ipv6-address)*

Description IP address of the node at which the tunnel path failed.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fail-node-address *(ipv4-address | ipv6-address)*
Tree	fail-node-address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-reroute

Description	Enter the fast-reroute context
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-reroute
Tree	fast-reroute
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-fast-reroute *boolean*

Description	Operational tunnel has fast reroute enabled.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-reroute oper-fast-reroute *boolean*
Tree	oper-fast-reroute
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-frr-hop-limit *number*

Description	FRR hop limit used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-reroute oper-frr-hop-limit *number*
Tree	oper-frr-hop-limit
Range	0 to 255
Configurable	False

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-frr-node-protect *boolean*

Description	Operational tunnel path has FRR node protection enabled.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-reroute oper-frr-node-protect *boolean*
Tree	oper-frr-node-protect
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-frr-propagate-admin-group *boolean*

Description	Operational tunnel path has propagation of admin-groups in FRR object enabled.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-reroute oper-frr-propagate-admin-group *boolean*
Tree	oper-frr-propagate-admin-group
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-retry *boolean*

Description	Next retry attempt uses fast retry timer.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* fast-retry *boolean*
Tree	fast-retry
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hop-limit *number*

Description	Maximum number of hops that the P2P path can traverse including ingress and egress routers. If no value is configured, the setting is inherited from the tunnel configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

init-retry-timer-expiry *string*

Description	When the RSVP Path message state will timeout after the initial Path message has been sent.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* init-retry-timer-expiry *string*
Tree	init-retry-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

inter-area *boolean*

Description	Operational tunnel path is inter-area.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* inter-area *boolean*
Tree	inter-area
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-oper-change-time *string*

Description	Time when operational state of this tunnel path last changed.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* last-oper-change-time *string*
Tree	last-oper-change-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reoptimization-attempt *string*

Description	Time of the last reoptimization attempt for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* last-reoptimization-attempt *string*
Tree	last-reoptimization-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

least-fill-reoptimization-eligible *boolean*

Description	Tunnel path is eligible for reoptimization on the basis of available bandwidth.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* least-fill-reoptimization-eligible *boolean*
Tree	least-fill-reoptimization-eligible
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-cspf-requests *number*

Description	Number of CSPF path computation requests for this tunnel path.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* local-cspf-requests *number*
Tree	local-cspf-requests
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description	LSP ID for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* lsp-id *number*
Tree	lsp-id
Range	1 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-oper-state *keyword*

Description	Operational state of the LSP Self Ping session for this path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* lsp-self-ping-oper-state *keyword*
Tree	lsp-self-ping-oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image

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- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

mbb

Description Enter the mbb context

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb

Tree mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-progress-mbb

Description Enter the in-progress-mbb context

The in-progress make-before-break (MBB) operational information.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb

Tree in-progress-mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for the in-progress MBB failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP
- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP
- no-route-to-destination

  No route could be found toward the requested destination
- traffic-control-system-error

  An error in the traffic control system due to an unsupported traffic parameter
- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.
- no-resources-available

  Insufficient system or protocol resources available to complete the request
- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.
- routing-loop

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A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

- srlg-secondary-not-disjoint

  The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

  A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

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- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

  The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

  MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

- path-retried

  LSP path was brought down and retried.

- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.

- auto-bandwidth-adjustment

  For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.

- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.

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- lsp-self-ping-timeout

  LSP self-ping timed out.
- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.
- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.
- resv-timeout

  RESV state timed out for RSVP-TE LSP.
- resv-tear

  ResvTear message received for RSVP-TE LSP.
- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.
- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.
- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-node-address *string*

Description IP address of the node at which the MBB path failed.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb fail-node-address *string*

Tree fail-node-address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

init-retry-timer-expiry *string*

Description When the RSVP Path message state will timeout after the initial Path message has been sent.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb init-retry-timer-expiry *string*
Tree	init-retry-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-retry-attempt *string*

Description	Next attempt to bring up the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-attempts *number*

Description	Number of attempts to bring up the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb retry-attempts *number*
Tree	retry-attempts
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaled-bw *number*

Description	Bandwidth used to signal the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb signaled-bw *number*
Tree	signaled-bw

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description	Time when the in-progress MBB started.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Type of the MBB.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb in-progress-mbb type *keyword*
Tree	type
Options	• none No MBB type applies. • config-change MBB triggered by a configuration change. • timer-based-reoptimization MBB triggered by timer-based reoptimization. • manual-reoptimization MBB triggered by a manual reoptimization command. • global-revert MBB triggered by global revert. • delayed-retry MBB triggered by a delayed retry. • graceful-shutdown MBB triggered by graceful shutdown. • soft-preemption

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MBB triggered by soft preemption.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-mbb

Description Enter the last-mbb context

The last make-before-break (MBB) operational information.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb

Tree last-mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description Time when the last MBB ended.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for the last MBB failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP

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- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP

- no-route-to-destination

  No route could be found toward the requested destination

- traffic-control-system-error

  An error in the traffic control system due to an unsupported traffic parameter

- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.

- no-resources-available

  Insufficient system or protocol resources available to complete the request

- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.

- routing-loop

  A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

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- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

- srlg-secondary-not-disjoint

  The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

  A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

  The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

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MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

- path-retried

  LSP path was brought down and retried.

- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.

- auto-bandwidth-adjustment

  For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.

- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.

- lsp-self-ping-timeout

  LSP self-ping timed out.

- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.

- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.

- resv-timeout

  RESV state timed out for RSVP-TE LSP.

- resv-tear

  ResvTear message received for RSVP-TE LSP.

- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.

- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.

- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description Metric of the traffic engineered path prior to the last MBB.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb metric *number*

Tree metric

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaled-bw *number*

Description Bandwidth used to signal the last MBB.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb signaled-bw *number*

Tree signaled-bw

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Last MBB was successful or failed.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb status *keyword*

Tree status

Options

- success
- fail

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Type of MBB.

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Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* mbb last-mbb type *keyword*

Tree type

Options

- none

  No MBB type applies.
- config-change

  MBB triggered by a configuration change.
- timer-based-reoptimization

  MBB triggered by timer-based reoptimization.
- manual-reoptimization

  MBB triggered by a manual reoptimization command.
- global-revert

  MBB triggered by global revert.
- delayed-retry

  MBB triggered by a delayed retry.
- graceful-shutdown

  MBB triggered by graceful shutdown.
- soft-preemption

  MBB triggered by soft preemption.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

negotiated-mtu *number*

Description Maximum transmission unit (MTU) that was negotiated during establishment of this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* negotiated-mtu *number*

Tree negotiated-mtu

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-retry-attempt *string*

Description	Time of the next retry attempt to bring up this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-admin-group-exclude-all *number*

Description	Bitmap which lists admin groups excluded in the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-admin-group-exclude-all *number*
Tree	oper-admin-group-exclude-all
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-admin-group-include-any *number*

Description	Bitmap which lists admin groups included in the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-admin-group-include-any *number*
Tree	oper-admin-group-include-any
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-adspec *boolean*

Description	Operational tunnel path has ADSPEC object included in RSVP messages.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-adspec *boolean*
Tree	oper-adspec
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-bandwidth *number*

Description	Amount of bandwidth that has been reserved for the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-bandwidth *number*
Tree	oper-bandwidth
Units	megabps
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-hold-priority *number*

Description	Hold priority used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-hold-priority *number*
Tree	oper-hold-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-hop-limit *number*

Description	Maximum hop limit used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-hop-limit *number*
Tree	oper-hop-limit

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Range	0 to 255
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-least-fill *boolean*

Description	Operational tunnel path was computed using the least-fill path selection method.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-least-fill *boolean*
Tree	oper-least-fill
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-metric *number*

Description	Operational metric for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-metric *number*
Tree	oper-metric
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-metric-type *keyword*

Description	Type of metric that was used to compute the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-metric-type *keyword*
Tree	oper-metric-type
Options	• igp IGP metric was used to compute the operational tunnel path. • te TE metric was used to compute the operational tunnel path.

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mtu *number*

Description	Operational maximum transmission unit (MTU) for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-mtu *number*
Tree	oper-mtu
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-propagate-admin-group *boolean*

Description	Operational tunnel path has propagation of admin-groups enabled.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-propagate-admin-group *boolean*
Tree	oper-propagate-admin-group
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-record *boolean*

Description	Operational tunnel path is recording all the traversed hops.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-record *boolean*
Tree	oper-record
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-record-label *boolean*

Description	Operational tunnel path is recording the label allocated at each traversed node.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-record-label *boolean*
Tree	oper-record-label
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-setup-priority *number*

Description	Setup priority used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-setup-priority *number*
Tree	oper-setup-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the point-to-point path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading

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Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-changes *number*

Description Number of operational state transitions for this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* oper-state-changes *number*

Tree oper-state-changes

Default 0

Configurable False

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Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-state *keyword*

Description Working state of this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* path-state *keyword*

Tree path-state

Options

- active
- inactive

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority

Description Enter the priority context

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* priority

Tree priority

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-priority *number*

Description Hold priority for P2P path

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* priority hold-priority *number*

Tree hold-priority

Range 0 to 7

Default 0

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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setup-priority *number*

Description	Setup priority for P2P path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* priority setup-priority *number*
Tree	setup-priority
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

record *boolean*

Description	Enable recording of all hops that the P2P path traverses
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* record *boolean*
Tree	record
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

record-label *boolean*

Description	Enable recording of labels at each hop that the P2P path traverses
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* record-label *boolean*
Tree	record-label
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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recorded-hop-list

Description Enter the recorded-hop-list context

Recorded hop list for this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list

Tree recorded-hop-list

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description Enter the hop list instance

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number*

Tree hop

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description Index of hop within the list.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number*

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *bits*

Description Flags for this hop.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* flags *bits*

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Tree	flags
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description	Hop type.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* hop-type *keyword*
Tree	hop-type
Options	• ipv4 IPv4 hop type. • unnumbered Unnumbered hop type.
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP Address of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

loose *boolean*

Description	Hop is loose.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* loose *boolean*
Tree	loose

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

record-label *number*

Description	Label recorded for this hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* record-label *number*
Tree	record-label
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description	Router ID of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description	Unnumbered interface identifier of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* recorded-hop-list hop hop-index *number* unnumbered-if-id *number*
Tree	unnumbered-if-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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retry-attempts *number*

Description	Number of attempts to bring up this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-primary p2p-path-name *string* retry-attempts *number*
Tree	retry-attempts
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-secondary p2p-path-name *string*

Description	Enter the secondary list instance
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string*
Tree	p2p-secondary
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

p2p-path-name *string*

Description	P2P path name
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string*
String Length	1 to 64
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

adaptive *boolean*

Description	Enable make-before-break functionality. If no value is configured, the setting is inherited from the tunnel configuration.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* adaptive *boolean*
Tree	adaptive
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group-constraints

Description	Enter the admin-group-constraints context Admin group constraints for the P2P path. If include-any or exclude-all is empty or not configured, that constraint is inherited from the tunnel configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* admin-group-constraints
Tree	admin-group-constraints
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-all *reference*

Description	List of references to named admin groups which must be excluded in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* admin-group-constraints exclude-all *reference*
Tree	exclude-all
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

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include-any *reference*

Description	List of references to named admin groups any of which must be included in path computation
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* admin-group-constraints include-any *reference*
Tree	include-any
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

admin-state *keyword*

Description	Administrative state of the P2P path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description	Amount of bandwidth to be reserved
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* bandwidth *number*
Tree	bandwidth
Range	0 to 6400000
Default	0

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-hop-list

Description	Enter the computed-hop-list context Computed hop list for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list
Tree	computed-hop-list
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description	Enter the hop list instance
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description	Index of hop within the list.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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abr *boolean*

Description Hop is an Area Border Router (ABR).

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* abr *boolean*

Tree abr

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description Hop type.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* hop-type *keyword*

Tree hop-type

Options

- ipv4

  IPv4 hop type.

- unnumbered

  Unnumbered hop type.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description IP Address of the hop.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* ip-address *(ipv4-address | ipv6-address)*

Tree ip-address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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loose *boolean*

Description	Hop is loose.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* loose *boolean*
Tree	loose
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface-admin-group *number*

Description	Administrative groups on the outgoing interface for this hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* out-interface-admin-group *number*
Tree	out-interface-admin-group
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description	Router ID of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description	Unnumbered interface identifier of the hop.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-hop-list hop hop-index *number* unnumbered-if-id *number*
Tree	unnumbered-if-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-metric *number*

Description	Metric of the traffic engineered path returned by the IGP.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* computed-metric *number*
Tree	computed-metric
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

degraded *boolean*

Description	Tunnel path is in degraded state.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* degraded *boolean*
Tree	degraded
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

degraded-reason *bits*

Description	Reason for tunnel path being in degraded state.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* degraded-reason *bits*
Tree	degraded-reason
Configurable	False

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Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-path-name *reference*

Description Name of the explicit path to use

If no value is configured, then an empty path is used.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* explicit-path-name *reference*

Tree explicit-path-name

Reference network-instance name *string* mpls lsps constrained-path named-explicit-path path-name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for tunnel path failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP
- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP
- no-route-to-destination

  No route could be found toward the requested destination
- traffic-control-system-error

  An error in the traffic control system due to an unsupported traffic parameter
- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.
- no-resources-available

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Insufficient system or protocol resources available to complete the request

- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.

- routing-loop

  A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

- srlg-secondary-not-disjoint

  The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

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A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

  The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

  MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

- path-retried

  LSP path was brought down and retried.

- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.

- auto-bandwidth-adjustment

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For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.

- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.

- lsp-self-ping-timeout

  LSP self-ping timed out.

- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.

- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.

- resv-timeout

  RESV state timed out for RSVP-TE LSP.

- resv-tear

  ResvTear message received for RSVP-TE LSP.

- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.

- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.

- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-node-address *(ipv4-address | ipv6-address)*

Description IP address of the node at which the tunnel path failed.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* fail-node-address *(ipv4-address | ipv6-address)*

Tree fail-node-address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fast-retry *boolean*

Description	Next retry attempt uses fast retry timer.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* fast-retry *boolean*
Tree	fast-retry
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description	Maximum number of hops that the P2P path can traverse including ingress and egress routers. If no value is configured, the setting is inherited from the tunnel configuration.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

init-retry-timer-expiry *string*

Description	When the RSVP Path message state will timeout after the initial Path message has been sent.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* init-retry-timer-expiry *string*
Tree	init-retry-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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inter-area *boolean*

Description	Operational tunnel path is inter-area.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* inter-area *boolean*
Tree	inter-area
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-change-time *string*

Description	Time when operational state of this tunnel path last changed.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* last-oper-change-time *string*
Tree	last-oper-change-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reoptimization-attempt *string*

Description	Time of the last reoptimization attempt for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* last-reoptimization-attempt *string*
Tree	last-reoptimization-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

least-fill-reoptimization-eligible *boolean*

Description	Tunnel path is eligible for reoptimization on the basis of available bandwidth.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* least-fill-reoptimization-eligible *boolean*
Tree	least-fill-reoptimization-eligible
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-cspf-requests *number*

Description	Number of CSPF path computation requests for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* local-cspf-requests *number*
Tree	local-cspf-requests
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description	LSP ID for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* lsp-id *number*
Tree	lsp-id
Range	1 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-self-ping-oper-state *keyword*

Description	Operational state of the LSP Self Ping session for this path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* lsp-self-ping-oper-state *keyword*
Tree	lsp-self-ping-oper-state

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Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mbb

Description Enter the mbb context

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb

Tree mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-progress-mbb

Description Enter the in-progress-mbb context

The in-progress make-before-break (MBB) operational information.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb

Tree in-progress-mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for the in-progress MBB failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP

- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP

- no-route-to-destination

  No route could be found toward the requested destination

- traffic-control-system-error

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An error in the traffic control system due to an unsupported traffic parameter

- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.

- no-resources-available

  Insufficient system or protocol resources available to complete the request

- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.

- routing-loop

  A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

- srlg-secondary-not-disjoint

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The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

  A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

  The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

  MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

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- path-retried

  LSP path was brought down and retried.
- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.
- auto-bandwidth-adjustment

  For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.
- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.
- lsp-self-ping-timeout

  LSP self-ping timed out.
- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.
- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.
- resv-timeout

  RESV state timed out for RSVP-TE LSP.
- resv-tear

  ResvTear message received for RSVP-TE LSP.
- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.
- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.
- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-node-address *string*

Description IP address of the node at which the MBB path failed.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb fail-node-address *string*
Tree	fail-node-address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

init-retry-timer-expiry *string*

Description	When the RSVP Path message state will timeout after the initial Path message has been sent.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb init-retry-timer-expiry *string*
Tree	init-retry-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-retry-attempt *string*

Description	Next attempt to bring up the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-attempts *number*

Description	Number of attempts to bring up the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb retry-attempts *number*

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Tree	retry-attempts
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaled-bw *number*

Description	Bandwidth used to signal the MBB path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb signaled-bw *number*
Tree	signaled-bw
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description	Time when the in-progress MBB started.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Type of the MBB.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb in-progress-mbb type *keyword*
Tree	type
Options	• none No MBB type applies. • config-change

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MBB triggered by a configuration change.

- timer-based-reoptimization

  MBB triggered by timer-based reoptimization.
- manual-reoptimization

  MBB triggered by a manual reoptimization command.
- global-revert

  MBB triggered by global revert.
- delayed-retry

  MBB triggered by a delayed retry.
- graceful-shutdown

  MBB triggered by graceful shutdown.
- soft-preemption

  MBB triggered by soft preemption.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-mbb

Description Enter the last-mbb context

The last make-before-break (MBB) operational information.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb

Tree last-mbb

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description Time when the last MBB ended.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb end-time *string*

Tree end-time

String Length 20 to 32

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Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

fail-code *keyword*

Description Reason code for the last MBB failure.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb fail-code *keyword*

Tree fail-code

Options

- no-error

  Indicates no error for the LSP

- admission-control-error

  RSVP admission control failure occurred at some point along the path of an LSP

- no-route-to-destination

  No route could be found toward the requested destination

- traffic-control-system-error

  An error in the traffic control system due to an unsupported traffic parameter

- routing-error

  There is a problem with the route defined for the LSP, for example the ERO is truncated.

- no-resources-available

  Insufficient system or protocol resources available to complete the request

- bad-node

  Indicates a bad node in path hop list at head-end or ERO at transit.

- routing-loop

  A routing loop was detected for the LSP path.

- label-allocation-error

  Unable to allocate a label for the LSP path.

- bad-l3-pid

  The router has received a PathErr with the error code 'Routing problem' and the error value 'Unsupported L3PID'.

- tunnel-locally-repaired

  A PLR has triggered a local repair at some point along the path of the LSP.

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- unknown-object-class

  A downstream LSR rejected an RSVP message because it contained an Unknown object class - Error code 13 defined in RFC2205.

- unknown-c-type

  A downstream LSR rejected an RSVP message due to an Unknown object C-type - Error code 14 defined in RFC2205.

- unknown

  Indicates an error not covered by one of the other known errors for this LSP.

- retry-exceeded

  The retry limit for the LSP path has been exceeded.

- no-cspf-route-owner

  No IGP instance was found that has a route to the LSP destination.

- no-cspf-route-to-destination

  CSPF was unable to find a route to the requested destination that satisfies all of the constraints.

- hop-limit-exceeded

  The hop-limit for the LSP path has been exceeded.

- srlg-secondary-not-disjoint

  The secondary or standby path is not SRLG disjoint from the primary path.

- srlg-primary-path-down

  An SRLG disjoint path could not be found for the secondary because the primary is down.

- local-link-maintenance

  A TE link (RSVP interface) local to this LSR or on a remote LSR used by the LSP is in TE graceful shutdown.

- inv-ct-and-setup-priority

  The combination of signaled diffserv class type and setup priority does not map to a valid diffserv TE class

- inv-ct-and-hold-priority

  The combination of signaled diffserv class type and hold priority does not map to a valid diffserv TE class

- inv-ct-and-setup-and-hold-priority

  The combination of signaled diffserv class type and setup priority and hold priority does not map to a valid diffserv TE class

- local-node-maintenance

  The local LSR or a remote LSR used by the LSP is in TE graceful shutdown due to maintenance The LSR that s shutdown is also identified.

- soft-preemption

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The LSP path is under soft pre-emption.

- rsvp-not-supported

  Maps to SubErrorCode 8 for ErrorCode 24 (Routing error) from RFC 3209.

  An LSR will send ErrorCode=24, SubErrorCode=8 when it receives PATH for P2MP LSP but P2MP is not supported on that router.

- conflicting-admin-groups

  The specified admin groups contradict e.g. the same group is both included and excluded.

- node-in-igp-overload

  An LSR along the path of the LSP has advertised the IS-IS overload state.

- mpls-v4-down

  MPLS IPv4 is operationally down

- tunnel-admin-down

  LSP is admin down.

- path-admin-down

  Path or LSP path is admin down.

- path-retried

  LSP path was brought down and retried.

- non-active-secondary

  Secondary path is down because the LSP has an alternate active path.

- auto-bandwidth-adjustment

  For an auto-bandwidth LSP, operational bandwidth for a non-active LSP path does not match the bandwidth configured for that path and we were not able adjust the bandwidth via MBB.

- path-degraded

  Non-active path was brought down because it was in degraded state (FRR active, soft-preempted, etc.) and we could not use MBB to resignal the path.

- lsp-self-ping-timeout

  LSP self-ping timed out.

- rsvp-error

  RSVP signaling errors like ResvTear received, egress neighbor down etc.

- rsvp-neighbor-down

  RSVP neighbor is down for the RSVP-TE LSP.

- resv-timeout

  RESV state timed out for RSVP-TE LSP.

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- resv-tear

  ResvTear message received for RSVP-TE LSP.
- frr-path-down

  Fast-reroute enabled RSVP-TE LSP was actively using backup path and backup path went down.
- tunnel-init-retry-timeout

  Initial retry timer expired for RSVP-TE LSP.
- iom-programming-failure

  IOM programming failed for RSVP-TE LSP.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Metric of the traffic engineered path prior to the last MBB.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb metric *number*

Tree metric

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaled-bw *number*

Description Bandwidth used to signal the last MBB.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb signaled-bw *number*

Tree signaled-bw

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Last MBB was successful or failed.

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Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb status *keyword*

Tree status

Options
- success
- fail

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Type of MBB.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* mbb last-mbb type *keyword*

Tree type

Options
- none

  No MBB type applies.
- config-change

  MBB triggered by a configuration change.
- timer-based-reoptimization

  MBB triggered by timer-based reoptimization.
- manual-reoptimization

  MBB triggered by a manual reoptimization command.
- global-revert

  MBB triggered by global revert.
- delayed-retry

  MBB triggered by a delayed retry.
- graceful-shutdown

  MBB triggered by graceful shutdown.
- soft-preemption

  MBB triggered by soft preemption.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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negotiated-mtu *number*

Description	Maximum transmission unit (MTU) that was negotiated during establishment of this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* negotiated-mtu *number*
Tree	negotiated-mtu
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-retry-attempt *string*

Description	Time of the next retry attempt to bring up this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-admin-group-exclude-all *number*

Description	Bitmap which lists admin groups excluded in the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-admin-group-exclude-all *number*
Tree	oper-admin-group-exclude-all
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-admin-group-include-any *number*

Description	Bitmap which lists admin groups included in the operational tunnel path.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-admin-group-include-any *number*
Tree	oper-admin-group-include-any
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-adspec *boolean*

Description	Operational tunnel path has ADSPEC object included in RSVP messages.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-adspec *boolean*
Tree	oper-adspec
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-bandwidth *number*

Description	Amount of bandwidth that has been reserved for the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-bandwidth *number*
Tree	oper-bandwidth
Units	megabps
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-hold-priority *number*

Description	Hold priority used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-hold-priority *number*
Tree	oper-hold-priority
Range	0 to 7

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-hop-limit *number*

Description	Maximum hop limit used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-hop-limit *number*
Tree	oper-hop-limit
Range	0 to 255
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-least-fill *boolean*

Description	Operational tunnel path was computed using the least-fill path selection method.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-least-fill *boolean*
Tree	oper-least-fill
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-metric *number*

Description	Operational metric for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-metric *number*
Tree	oper-metric
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-metric-type *keyword*

Description Type of metric that was used to compute the operational tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-metric-type *keyword*

Tree oper-metric-type

Options

- igp

  IGP metric was used to compute the operational tunnel path.

- te

  TE metric was used to compute the operational tunnel path.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-mtu *number*

Description Operational maximum transmission unit (MTU) for this tunnel path.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-mtu *number*

Tree oper-mtu

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-propagate-admin-group *boolean*

Description Operational tunnel path has propagation of admin-groups enabled.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-propagate-admin-group *boolean*

Tree oper-propagate-admin-group

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-record *boolean*

Description	Operational tunnel path is recording all the traversed hops.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-record *boolean*
Tree	oper-record
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-record-label *boolean*

Description	Operational tunnel path is recording the label allocated at each traversed node.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-record-label *boolean*
Tree	oper-record-label
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-setup-priority *number*

Description	Setup priority used by the operational tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-setup-priority *number*
Tree	oper-setup-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the point-to-point path

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Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-changes *number*

Description	Number of operational state transitions for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* oper-state-changes *number*
Tree	oper-state-changes
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-preference *number*

Description	Path preference for the secondary standby path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* path-preference *number*
Tree	path-preference
Range	1 to 255
Default	255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-state *keyword*

Description	Working state of this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* path-state *keyword*
Tree	path-state
Options	• active • inactive
Configurable	False

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority

Description	Enter the priority context
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* priority
Tree	priority
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-priority *number*

Description	Hold priority for P2P path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* priority hold-priority *number*
Tree	hold-priority
Range	0 to 7
Default	0
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority *number*

Description	Setup priority for P2P path
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* priority setup-priority *number*
Tree	setup-priority
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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record *boolean*

Description	Enable recording of all hops that the P2P path traverses
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* record *boolean*
Tree	record
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

record-label *boolean*

Description	Enable recording of labels at each hop that the P2P path traverses
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* record-label *boolean*
Tree	record-label
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

recorded-hop-list

Description	Enter the recorded-hop-list context Recorded hop list for this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list
Tree	recorded-hop-list
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hop hop-index *number*

Description	Enter the hop list instance
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description	Index of hop within the list.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *bits*

Description	Flags for this hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* flags *bits*
Tree	flags
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description	Hop type.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* hop-type *keyword*
Tree	hop-type

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Options
- ipv4

  IPv4 hop type.
- unnumbered

  Unnumbered hop type.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description IP Address of the hop.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* ip-address *(ipv4-address | ipv6-address)*

Tree ip-address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

loose *boolean*

Description Hop is loose.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* loose *boolean*

Tree loose

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

record-label *number*

Description Label recorded for this hop.

Context network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* record-label *number*

Tree record-label

Configurable False

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description	Router ID of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description	Unnumbered interface identifier of the hop.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* recorded-hop-list hop hop-index *number* unnumbered-if-id *number*
Tree	unnumbered-if-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-attempts *number*

Description	Number of attempts to bring up this tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* retry-attempts *number*
Tree	retry-attempts
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srlg *boolean*

Description	Use SRLG constraint in secondary path computation for an LSP at the head-end LER
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* srlg *boolean*
Tree	srlg
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srlg-disjoint *boolean*

Description	This tunnel path is SRLG disjoint from the primary tunnel path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* srlg-disjoint *boolean*
Tree	srlg-disjoint
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

standby *boolean*

Description	Configure this secondary path to be a standby
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes p2p-secondary p2p-path-name *string* standby *boolean*
Tree	standby
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-changes *number*

Description	Number of times the active path for this tunnel has changed.

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Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes path-changes *number*
Tree	path-changes
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer *number*

Description	Revert timer for the P2P tunnel
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes revert-timer *number*
Tree	revert-timer
Range	1 to 4320
Units	minutes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer-expiry *string*

Description	Time when the revert timer will expire causing the tunnel to revert to the primary path.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes revert-timer-expiry *string*
Tree	revert-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

standby-paths *number*

Description	Number of standby paths configured for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes standby-paths *number*
Tree	standby-paths

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

use-computed-metric *boolean*

Description	Use computed metric in TTM for the P2P tunnel
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* p2p-tunnel-attributes use-computed-metric *boolean*
Tree	use-computed-metric
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-computation-method *keyword*

Description	Path computation method
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* path-computation-method *keyword*
Tree	path-computation-method
Default	local-cspf
Options	• local-cspf
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

propagate-admin-group *boolean*

Description	Enable propagation of admin groups via session attribute object
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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retry-limit *number*

Description	Number of attempts to re-establish LSP path after it fails
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* retry-limit *number*
Tree	retry-limit
Range	1 to 10000
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-timer *number*

Description	Time for LSP path re-establishment attempts after failure
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* retry-timer *number*
Tree	retry-timer
Range	1 to 600
Default	30
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-resv-style *keyword*

Description	RSVP reservation style
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* rsvp-resv-style *keyword*
Tree	rsvp-resv-style
Default	se
Options	• se • ff
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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soft-preemption *boolean*

Description	Enable soft preemption
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* soft-preemption *boolean*
Tree	soft-preemption
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	Source address for the tunnel By default, this is the TE Router ID of this ingress LER
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* source *string*
Tree	source
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	Tunnel ID for this tunnel.
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* tunnel-id *number*
Tree	tunnel-id
Range	1 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Tunnel type
Context	network-instance name *string* mpls lsps constrained-path tunnel tunnel-name *string* type *keyword*

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Tree	type
Options	• p2p-rsvp
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-lsp name *string*

Description	List of stically configured label switched paths
Context	network-instance name *string* mpls lsps static-lsp name *string*
Tree	static-lsp
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the label-switched path
Context	network-instance name *string* mpls lsps static-lsp name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description	Enter the egress context Static LSPs for which the router is an egress node and therefore the incoming label should be popped
Context	network-instance name *string* mpls lsps static-lsp name *string* egress
Tree	egress
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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incoming-label *number*

Description	Incoming label value to associate with the static LSP When the top-label stack entry matches this value the router knows the packet belongs to this LSP
Context	network-instance name *string* mpls lsps static-lsp name *string* egress incoming-label *number*
Tree	incoming-label
Range	16 to 1048575
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	The ip-vrf network-instance that applies to all the configured next-hops
Context	network-instance name *string* mpls lsps static-lsp name *string* egress network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop index *number*

Description	List of next-hops to consider for forwarding after the incoming label is popped More than 1 next-hop implies ECMP behavior.
Context	network-instance name *string* mpls lsps static-lsp name *string* egress next-hop index *number*
Tree	next-hop
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1
Min. Elements	1

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index *number*

Description	A user-specified identifier that uniquely references a next-hop entry in the next-hop list
Context	network-instance name *string* mpls lsps static-lsp name *string* egress next-hop index *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	Next hop IP address for the LSP
Context	network-instance name *string* mpls lsps static-lsp name *string* egress next-hop index *number* ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	The ip-vrf network-instance that applies to this next-hop
Context	network-instance name *string* mpls lsps static-lsp name *string* egress next-hop index *number* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

pipe-mode *boolean*

Description	When true, the MPLS LSP operates in pipe mode In pipe mode, the MPLS traffic-class and MPLS TTL are not copied into the DSCP and IP-TTL fields of the IP packet exposed by the pop operation. When false, the MPLS LSP operates in uniform mode. In uniform mode, the MPLS traffic-class and MPLS TTL are copied into the DSCP and IP-TTL fields of the IP packet exposed by the pop operation.

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Context	network-instance name *string* mpls lsps static-lsp name *string* egress pipe-mode *boolean*
Tree	pipe-mode
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason why the static MPLS LSP has a down oper-state
Context	network-instance name *string* mpls lsps static-lsp name *string* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• label-unavailable The incoming label cannot be allocated because it is already in use • next-hops-unresolved There is no valid next-hop to use for forwarding • resource-allocation-failed Datapath resources required to program the LSP could not be allocated
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of the static LSP
Context	network-instance name *string* mpls lsps static-lsp name *string* oper-state *keyword*
Tree	oper-state
Options	• up LSP is operational and capable of carrying traffic • down LSP is down and not capable of carrying traffic
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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payload-type *keyword*

Description	Specifies the payload type of traffic carried by this static MPLS LSP
Context	network-instance name *string* mpls lsps static-lsp name *string* payload-type *keyword*
Tree	payload-type
Default	unicast
Options	• unicast The LSP carries unicast traffic • multicast The LSP carries multicast traffic
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-entry top-label *number* preference *number*

Description	Enter the static-entry list instance
Context	network-instance name *string* mpls static-entry top-label *number* preference *number*
Tree	static-entry
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

top-label *number*

Description	A received MPLS packet, received on any subinterface, matches this static entry if its top label stack entry contains the label value specified by this leaf.
Context	network-instance name *string* mpls static-entry top-label *number* preference *number*
Range	16 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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preference *number*

Description For a given top label value the entry with the lowest preference is selected as the active entry

Context network-instance name *string* mpls static-entry top-label *number* preference *number*

Range 0 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Used to disable the entire static route and all its next-hops.

Context network-instance name *string* mpls static-entry top-label *number* preference *number* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-stats *boolean*

Description When set to true, stats resources are used to count the number of incoming packets matching the top label value of this static MPLS route

Context network-instance name *string* mpls static-entry top-label *number* preference *number* collect-stats *boolean*

Tree collect-stats

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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installed *boolean*

Description	Indicates whether the MPLS route entry was programmed in the data path.
Context	network-instance name *string* mpls static-entry top-label *number* preference *number* installed *boolean*
Tree	installed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group *reference*

Description	Enter the next-hop-group context
Context	network-instance name *string* mpls static-entry top-label *number* preference *number* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* next-hop-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description	The operation to be performed with the top label.
Context	network-instance name *string* mpls static-entry top-label *number* preference *number* operation *keyword*
Tree	operation
Default	swap
Options	• pop • swap
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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resolved-next-hop-group-id *reference*

Description	Enter the resolved-next-hop-group-id context
Context	network-instance name *string* mpls static-entry top-label *number* preference *number* resolved-next-hop-group-id *reference*
Tree	resolved-next-hop-group-id
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block *reference*

Description	Enter the static-label-block context
Context	network-instance name *string* mpls static-label-block *reference*
Tree	static-label-block
Reference	system mpls label-ranges static name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block-status *keyword*

Description	Status of the label block. The label block may show as unavailable if there is pending cleanup.
Context	network-instance name *string* mpls static-label-block-status *keyword*
Tree	static-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls-forwarding

Description	Enter the mpls-forwarding context
Context	network-instance name *string* mpls-forwarding
Tree	mpls-forwarding
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-received-packets *boolean*

Description	When set to true, MPLS packets received on any subinterface of the network-instance will be forwarded according to the matching ILM entries. When set to false, MPLS packets are discarded if received on any subinterface of the network-instance. In the default network-instance the default is 'true'.
Context	network-instance name *string* mpls-forwarding forward-received-packets *boolean*
Tree	forward-received-packets
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu

Description	Top-level container for configuration and state data related to network-instance MTU
Context	network-instance name *string* mtu
Tree	mtu
Configurable	True
Platforms	Supported on all platforms

path-mtu-discovery *boolean*

Description	Enables or disables path MTU discovery in this network-instance

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This is controlled via the kernel ip_no_pmtu_disc option. Path MTU discovery (PMTUD) is a standardized technique in networking for determining the MTU size on the network path between two hosts, usually with the goal of avoiding IP fragmentation.

For IPv4 packets, Path MTU discovery works by setting the Don't Fragment (DF) flag bit in the IP headers of outgoing packets. Then, any device along the path whose MTU is smaller than the packet will drop it, and send back an Internet Control Message Protocol (ICMP) Fragmentation Needed (Type 3, Code 4) message containing its MTU, allowing the source host to reduce its Path MTU appropriately. The process is repeated until the MTU is small enough to traverse the entire path without fragmentation.

Context network-instance name *string* mtu path-mtu-discovery *boolean*

Tree path-mtu-discovery

Default true

Configurable True

Platforms Supported on all platforms

multicast-forwarding-information-base

Description Enter the multicast-forwarding-information-base context

Context network-instance name *string* multicast-forwarding-information-base

Tree multicast-forwarding-information-base

Configurable False

Platforms Supported on all platforms

multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*

Description List of all the MFIB entries in the instance

Context network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*

Tree multicast-route

Configurable False

Platforms Supported on all platforms

source *(ipv4-address | ipv6-address)*

Description Source IP address of the MFIB entry

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Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	Supported on all platforms

group *(ipv4-address | ipv6-address)*

Description	Multicast group address of the MFIB entry
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	Supported on all platforms

last-update *string*

Description	Last update of this MFIB entry
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

outgoing-interface index *number*

Description	List of the outgoing interfaces for this MFIB entry
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-interface index *number*
Tree	outgoing-interface
Configurable	False
Platforms	Supported on all platforms

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index *number*

Description	network instance allocated sub interface index
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-interface index *number*
Configurable	False
Platforms	Supported on all platforms

forward *boolean*

Description	Whether the outgoing interface is in forwarding state
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-interface index *number* forward *boolean*
Tree	forward
Configurable	False
Platforms	Supported on all platforms

outgoing-next-hop-group index *number*

Description	List of the outgoing tunnel next-hop-groups associated with this MFIB entry
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-next-hop-group index *number*
Tree	outgoing-next-hop-group
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	Next-hop-group allocated index
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

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forward *boolean*

Description	Whether the outgoing next-hop-group is in forwarding state
Context	network-instance name *string* multicast-forwarding-information-base multicast-route source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* outgoing-next-hop-group index *number* forward *boolean*
Tree	forward
Configurable	False
Platforms	Supported on all platforms

next-hop-groups

Description	Enable the next-hop-groups context
Context	network-instance name *string* next-hop-groups
Tree	next-hop-groups
Configurable	True
Platforms	Supported on all platforms

group name *string*

Description	Specifies the next hop group.
Context	network-instance name *string* next-hop-groups group name *string*
Tree	group
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Specifies the next hop group name
Context	network-instance name *string* next-hop-groups group name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

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admin-state *keyword*

Description Administratively enable or disable this next-hop-group.

Context network-instance name *string* next-hop-groups group name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

backup-next-hop-group *reference*

Description The backup next-hop-group for the current group

Context network-instance name *string* next-hop-groups group name *string* backup-next-hop-group *reference*

Tree backup-next-hop-group

Reference network-instance name *string* next-hop-groups group name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

blackhole

Description Enable the blackhole context

Context network-instance name *string* next-hop-groups group name *string* blackhole

Tree blackhole

Configurable True

Platforms Supported on all platforms

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generate-icmp *boolean*

Description	When set to true the router generates ICMP unreachable messages for the dropped packets
Context	network-instance name *string* next-hop-groups group name *string* blackhole generate-icmp *boolean*
Tree	generate-icmp
Default	false
Configurable	True
Platforms	Supported on all platforms

nexthop index *number*

Description	Enter the nexthop list instance
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number*
Tree	nexthop
Configurable	True
Platforms	Supported on all platforms
Max. Elements	128

index *number*

Description	Numerical index of the next-hop member
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number*
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable this next-hop.
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable

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- disable

Configurable True

Platforms Supported on all platforms

encapsulate-header *keyword*

Description When forwarding a packet to the specified next-hop the local system performs an encapsulation of the packet, adding the specified header type

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* encapsulate-header *keyword*

Tree encapsulate-header

Options

- gre

  The encapsulation header is a Generic Routing Encapsulation header

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failure-detection

Description Enter the failure-detection context

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* failure-detection

Tree failure-detection

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd

Description Enable the enable-bfd context

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* failure-detection enable-bfd

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Tree	enable-bfd
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description	The local address to be used for the associated BFD session
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* failure-detection enable-bfd local-address *(ipv4-address | ipv6-address)*
Tree	local-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	The local discriminator to be used for the associated BFD session
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* failure-detection enable-bfd local-discriminator *number*
Tree	local-discriminator
Range	1 to 16384
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-discriminator *number*

Description	The remote discriminator to be used for the associated BFD session
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* failure-detection enable-bfd remote-discriminator *number*
Tree	remote-discriminator
Range	1 to 16384
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gre

Description	Enter the gre context Parameters relating to GRE encapsulation
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* gre
Tree	gre
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Description	Destination IP address to use for the encapsulated packet.
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* gre destination-ip *(ipv4-address-unicast | ipv6-address-unicast)*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Description Source IP address to use for the encapsulated packet.

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* gre source-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Tree source-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description Enter the interface-ref context

Reference to the subinterface used for an unnumbered IP next-hop

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* interface-ref

Tree interface-ref

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port or LAG

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	The next-hop IPv4 or IPv6 address If the IPv6 address is a link-local address then the zoned format must be used
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* ip-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ip-address
Configurable	True
Platforms	Supported on all platforms

pushed-mpls-label-stack *(number | keyword)*

Description	A list of MPLS labels to push onto the packet when forwarding to this particular next-hop

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Default is none/empty. Pushing an MPLS label stack is not supported unless the resolve flag is set to false.

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* pushed-mpls-label-stack *(number | keyword)*

Tree pushed-mpls-label-stack

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

resolve *boolean*

Description When set to true, the router is allowed to use any route to resolve the nexthop address to an outgoing interface

When set to false the router is only allowed to use a local route to resolve the next-hop address.

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* resolve *boolean*

Tree resolve

Default true

Configurable True

Platforms Supported on all platforms

tunnel-resolution

Description Enter the tunnel-resolution context

Options for controlling next-hop resolution via MPLS-aware tunnels

Context network-instance name *string* next-hop-groups group name *string* nexthop index *number* tunnel-resolution

Tree tunnel-resolution

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description	Specifies the flexible algorithm.
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* tunnel-resolution algorithm *number*
Tree	algorithm
Range	128 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	Specifies one or more allowed tunnel types; If set, next-hop resolution uses only the selected tunnel types; if none match, the next-hop is not programmed. If unset, no tunnel resolution occurs and recursion falls back to IP next hops when resolve is true.
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• static-next-hop-group-tunnel Base type for the types of tunnels that can resolve static NHG next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-mode *keyword*

Description	Selection of the flex-algo tunnel resolution mechanism
Context	network-instance name *string* next-hop-groups group name *string* nexthop index *number* tunnel-resolution flex-algo-mode *keyword*
Tree	flex-algo-mode

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Options

- strict

  Enforce strict resolution via the specified Flex-Algo tunnel; reject resolution if the tunnel is unavailable.
- spf-tunnel-fallback

  Use the specified Flex-Algo tunnel when available; otherwise, fall back to the default algorithm SR-MPLS tunnel.
- disabled

  Disables the use of flexible algorithm tunnels during next-hop resolution.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options for controlling next-hop resolution via MPLS-aware tunnels

Context network-instance name *string* next-hop-groups group name *string* tunnel-resolution

Tree tunnel-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Specifies the flexible algorithm.

Context network-instance name *string* next-hop-groups group name *string* tunnel-resolution algorithm *number*

Tree algorithm

Range 128 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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allowed-tunnel-types *identityref*

Description Specifies one or more allowed tunnel types;

If set, next-hop resolution uses only the selected tunnel types; if none match, the next-hop is not programmed.

If unset, no tunnel resolution occurs and recursion falls back to IP next hops when resolve is true.

Context network-instance name *string* next-hop-groups group name *string* tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- static-next-hop-group-tunnel

  Base type for the types of tunnels that can resolve static NHG next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-mode *keyword*

Description Selection of the flex-algo tunnel resolution mechanism

Context network-instance name *string* next-hop-groups group name *string* tunnel-resolution flex-algo-mode *keyword*

Tree flex-algo-mode

Options

- strict

  Enforce strict resolution via the specified Flex-Algo tunnel; reject resolution if the tunnel is unavailable.

- spf-tunnel-fallback

  Use the specified Flex-Algo tunnel when available; otherwise, fall back to the default algorithm SR-MPLS tunnel.

- disabled

  Disables the use of flexible algorithm tunnels during next-hop resolution.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-down-reason *keyword*

Description	The reason the network-instance is down
Context	network-instance name *string* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• admin-down • no-mcid
Configurable	False
Platforms	Supported on all platforms

oper-mac-vrf-mtu *number*

Description	Operational l2-mtu of the mac-vrf network-instance Calculated as the lowest l2-mtu of the bridged subinterfaces associated to the mac-vrf, minus the associated vlan tags of the subinterface. The subinterface l2-mtu is the value configured under the subinterface, or the system/mtu/default-l2-mtu value otherwise. For mac-vrf network-instances without subinterfaces, the oper-mac-vrf-mtu matches the system/mtu/default-l2-mtu value. When the mac-vrf has an associated irb subinterface, if the configured irb ip-mtu exceeds the oper-mac-vrf-mtu minus 14 bytes (Ethernet header), then the irb subinterface will remain operationally down. The oper-mac-vrf-mtu is only available in mac-vrf network-instances.
Context	network-instance name *string* oper-mac-vrf-mtu *number*
Tree	oper-mac-vrf-mtu
Range	1492 to 9500
Units	bytes
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	This leaf contains the operational state of the network instance.
Context	network-instance name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

oper-vpws-mtu *number*

Description Operational l2-mtu of the vpws network-instance

Derived from the lowest l2-mtu value of the bridged subinterfaces associated to the vpws, minus the vlan tags associated to that subinterface. If the vpws

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network-instance does not have subinterfaces the oper-vpws-mtu value is computed as the system/mtu/default-l2-mtu value.

The oper-vpws-mtu is only available in vpws network-instances.

Context network-instance name *string* oper-vpws-mtu *number*

Tree oper-vpws-mtu

Range 1492 to 9500

Units bytes

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-forwarding

Description Configuration and operational state relating to policy-forwarding within a network instance.

Context network-instance name *string* policy-forwarding

Tree policy-forwarding

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

global-decap-policy *reference*

Description Reference to a pbr-policy with decapsulation rules that are automatically installed on all interfaces

Context network-instance name *string* policy-forwarding global-decap-policy *reference*

Tree global-decap-policy

Reference network-instance name *string* policy-forwarding policy policy-id *string*

Configurable True

Platforms Supported on 7250 IXR-6e-gen3/10e-gen3/18e-gen3/X4

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global-selective-load-balancing-policy *reference*

Description	Reference to a pbr-policy with selective load-balancing rules that are automatically installed on all interfaces
Context	network-instance name *string* policy-forwarding global-selective-load-balancing-policy *reference*
Tree	global-selective-load-balancing-policy
Reference	network-instance name *string* policy-forwarding policy policy-id *string*
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

interface subinterface *string*

Description	List of subinterfaces that use the policy forwarding policy.
Context	network-instance name *string* policy-forwarding interface subinterface *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Name of the subinterface.
Context	network-instance name *string* policy-forwarding interface subinterface *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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apply-forwarding-policy *reference*

Description	The policy to be applied on the interface. Packets ingress on the referenced interface should be compared to the match criteria within the specified policy, and in the case that these criteria are met, the forwarding actions specified applied.
Context	network-instance name *string* policy-forwarding interface subinterface *string* apply-forwarding-policy *reference*
Tree	apply-forwarding-policy
Reference	network-instance name *string* policy-forwarding policy policy-id *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

apply-match-action-policy *reference*

Description	The match-action policy to be applied on the interface Packets ingress on the referenced interface are compared to the match criteria within the specified policy and, where criteria are met, the configured actions are applied.
Context	network-instance name *string* policy-forwarding interface subinterface *string* apply-match-action-policy *reference*
Tree	apply-match-action-policy
Reference	network-instance name *string* policy-forwarding policy policy-id *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description	Enter the interface-ref context Reference to a subinterface
Context	network-instance name *string* policy-forwarding interface subinterface *string* interface-ref
Tree	interface-ref

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description	Reference to a base interface, for example a port or LAG
Context	network-instance name *string* policy-forwarding interface subinterface *string* interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	network-instance name *string* policy-forwarding interface subinterface *string* interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-id *string*

Description A forwarding policy is defined to have a set of match criteria, allowing particular fields of a packet's header to be matched, and a set of forwarding actions which determines how the local system should forward the packet.

Context network-instance name *string* policy-forwarding policy policy-id *string*

Tree policy

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2048

policy-id *string*

Description A unique name identifying the forwarding policy. This name is used when applying the policy to a particular interface.

Context network-instance name *string* policy-forwarding policy policy-id *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-stats *boolean*

Description Whether statistics are collected for packets matching this entry

Context network-instance name *string* policy-forwarding policy policy-id *string* collect-stats *boolean*

Tree collect-stats

Configurable True

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

counter name *string*

Description	Named counters in this policy for counting packets matching certain policy-forwarding match-action rules
Context	network-instance name *string* policy-forwarding policy policy-id *string* counter name *string*
Tree	counter
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the user-defined counter
Context	network-instance name *string* policy-forwarding policy policy-id *string* counter name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-octets *number*

Description	Total number of octets in packets sent to this counter for counting
Context	network-instance name *string* policy-forwarding policy policy-id *string* counter name *string* total-octets *number*
Tree	total-octets
Default	0
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-packets *number*

Description	Total number of packets sent to this counter for counting
Context	network-instance name *string* policy-forwarding policy policy-id *string* counter name *string* total-packets *number*
Tree	total-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description string for the policy
Context	network-instance name *string* policy-forwarding policy policy-id *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rule sequence-id *number*

Description	List of policy forwarding rules.

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Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number*

Tree rule

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number*

Range 0 to 128

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action

Description Enter the action context

Container for the actions to be applied to packets matching the policy forwarding rule.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action

Tree action

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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count

Description Enter the count context

Count matching packets

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action count

Tree count

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

counter-name *reference*

Description Count matching packets using the named counter

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action count counter-name *reference*

Tree counter-name

Reference network-instance name *string* policy-forwarding policy policy-id *string* counter name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

decap-fallback-network-instance *reference*

Description Specifies the network-instance used as a fallback instance for lookup when applying the decap-network-instance action results in no match for the packet

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decap-fallback-network-instance *reference*

Tree decap-fallback-network-instance

Reference network-instance name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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decap-network-instance *reference*

Description	Matching packets should be looked up in the referenced network-instance that is expected to contain 'routes' that perform IP tunnel decapsulation If there is a match, the packet should be decapsulated and route lookup on the new header should happen in the post-decap-network-instance. If there is no match, the packet should be looked up in the decap-fallback-network-instance. Configuration of this leaf is not valid without configuration for decap-fallback-network-instance and post-decap-network-instance. Configuration of this leaf is mutually exclusive with the network-instance action. Note: The only entries in the decap-network-instance that are relevant to this PBF action are special decap entries programmed by gRIBI.
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decap-network-instance *reference*
Tree	decap-network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decapsulate-gre *boolean*

Description	Remove the Generic Routing Encapsulation (GRE) header from packets matching the rule
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decapsulate-gre *boolean*
Tree	decapsulate-gre
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decapsulate-gue *boolean*

Description	Remove the Generic UDP Encapsulation (GUE) IP-UDP headers from packets matching the rule

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Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decapsulate-gue *boolean*
Tree	decapsulate-gue
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

decapsulate-ip-in-ip *boolean*

Description	Remove the outer IP header from IP-in-IP encapsulated packets matching the rule
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decapsulate-ip-in-ip *boolean*
Tree	decapsulate-ip-in-ip
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decapsulate-mpls-in-udp *boolean*

Description	Remove the IP-UDP encapsulation when it encapsulates an MPLS packet
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action decapsulate-mpls-in-udp *boolean*
Tree	decapsulate-mpls-in-udp
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

down-override *keyword*

Description	Configure the behavior of the system when the configured redirection cannot be performed.
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action down-override *keyword*
Tree	down-override
Options	• drop Program the system such that packets matching this rule will be droped in case the configured redirection cannot be performed.

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- forward

  Program the system such that packets matching this rule will simply be forwarded in case the configured redirection cannot be performed.

- skip

  Do not program the rule in case the configured redirection cannot be performed.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encapsulate-gre

Description Enter the encapsulate-gre context

Container for the GRE encapsulation actions to be applied to packets matching the policy forwarding rule.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre

Tree encapsulate-gre

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target id *string*

Description Identifier for the GRE target group. Each target specified within this list should be treated as a endpoint to which packets should be GRE encapsulated. Where the set of destinations described within a single entry expands to more than one destination IP address, packets should be load shared across the destination using the local system's ECMP hashing mechanisms.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre target id *string*

Tree target

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

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id *string*

Description A unique identifier for the target.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre target id *string*

String Length 0 to 64

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination *(ipv4-prefix | ipv6-prefix)*

Description The set of destination addresses that should be encapsulated towards. Where a subnet is specified, each address within the subnet should be treated as an independent destination for encapsulated traffic. Packets should be distributed with ECMP across the set of tunnel destination addresses.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre target id *string* destination *(ipv4-prefix | ipv6-prefix)*

Tree destination

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description The TTL that should be specified in the IP header of the GRE packet encapsulating the packet matching the rule.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre target id *string* ip-ttl *number*

Tree ip-ttl

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source *(ipv4-address | ipv6-address)*

Description The source IP address that should be used when encapsulating packets from the local system.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action encapsulate-gre target id *string* source *(ipv4-address | ipv6-address)*

Tree source

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-action *keyword*

Description Apply the specified forwarding action

The implicit default is accept.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action forwarding-action *keyword*

Tree forwarding-action

Options

- accept

  Accept and forward matching packets according to other actions

- drop

  Drop matching packets and do not send any ICMP unreachable messages

- reject

  Drop matching packets and send ICMP unreachable messages

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-ttl *number*

Description Rewrite the incoming IPv4 TTL to the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action ipv4-ttl *number*

Tree ipv4-ttl

Configurable True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-hop-limit *number*

Description	Rewrite the incoming IPv6 hop-limit to the specified value
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action ipv6-hop-limit *number*
Tree	ipv6-hop-limit
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

load-balance *keyword*

Description	Allows policy forwarding rule to detemine the type of load-balancing mechanism used for matching traffic
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action load-balance *keyword*
Tree	load-balance
Options	• static Matching traffic uses static load-balancing mechanism and skips DLB • dynamic Matching traffic uses dynamic load-balancing mechanism
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

network-instance *reference*

Description	When this leaf is set, packets matching the match criteria for the forwarding rule should be looked up in the network-instance that is referenced rather than the network-instance with which the interface is associated.
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	When this leaf is set, packets matching the match criteria for the forwarding rule will be routed as if their destination address had been the specified next-hop.
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group *reference*

Description	When this leaf is set, packets matching the rule will be routed towards the next-hops of the configured group.
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* static next-hop-group name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

post-decap-network-instance *reference*

Description	Specifies the network-instance used for lookup on the new header when applying the decap-network-instance action results in a match for the packet
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* action post-decap-network-instance *reference*
Tree	post-decap-network-instance
Reference	network-instance name *string*

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description string for the rule
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match

Description	Enter the match context Container for the conditions that determine whether a packet matches this entry
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match
Tree	match
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address-family *keyword*

Description Address-family selector for packet matching

When set to 'ipv4', only IPv4 match conditions are permitted under the ipv4 container. When set to 'ipv6', only IPv6 match conditions are permitted under the ipv6 container. When not set, match conditions may be configured under both containers simultaneously.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match address-family *keyword*

Tree address-family

Options

- ipv4

  Match IPv4 packets only

- ipv6

  Match IPv6 packets only

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Container for match conditions associated with IPv4 header fields

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip

Description Enter the destination-ip context

Packet matching criteria based on destination IPv4 address

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 destination-ip

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Tree	destination-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description	Match a packet if its destination IPv4 address is within the specified IPv4 prefix
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 destination-ip prefix *string*
Tree	prefix
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list *reference*

Description	Match a packet if its destination IPv4 address is matched by one of the prefixes in the referenced list
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 destination-ip prefix-list *reference*
Tree	prefix-list
Reference	acl match-list ipv4-prefix-list name *string*
Configurable	True
Platforms	Supported on 7250 IXR-6e-gen3/10e-gen3/18e-gen3/X4

dscp-set *(number | keyword)*

Description	A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.

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Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 dscp-set *(number | keyword)*

Tree dscp-set

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp

Description Enter the icmp context

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Match ICMP packets

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 icmp

Tree icmp

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

code *number*

Description Match an IPv4 packet if its ICMP code matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 icmp code *number*

Tree code

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description Match an IPv4 packet if its ICMP type matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 icmp type *number*

Tree type

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group-id *number*

Description Match an IPv4 packet if it is forwarded by the specified NHG

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 next-hop-group-id *number*

Tree next-hop-group-id

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-group-network-instance *reference*

Description Specify the network-instance scope of the next-hop-group-id

If not specified, the implied scope is the same as the one where the policy is defined.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 next-hop-group-network-instance *reference*

Tree next-hop-group-network-instance

Reference network-instance name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *(number | keyword)*

Description An IPv4 packet matches this condition if its IP protocol type field matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 protocol *(number | keyword)*

Tree protocol

Range 0 to 255

Options

- ipv6-hop

  IPv6 hop-by-hop option
- icmp

  Internet Control Message Protocol
- igmp

  Internet Group Management Protocol
- ggp

  Gateway-to-Gateway Protocol
- ipv4

  IPv4 encapsulation
- st

  Stream Protocol
- tcp

  Transmission Control Protocol
- egp

  Exterior Gateway Protocol

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- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation
- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6
- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol
- mpls-in-ip
  MPLS Encapsulation inside IP

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- rohc

  Robust Header Compression

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip

Description Enter the source-ip context

Packet matching criteria based on source IPv4 address

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 source-ip

Tree source-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description Match a packet if its source IPv4 address is within the specified IPv4 prefix

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 source-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ttl *number*

Description match an IPv4 packet if its IP TTL (Time to Live) is equal to the specified value

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Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv4 ttl *number*
Tree	ttl
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context Container for match conditions associated with IPv6 header fields
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6
Tree	ipv6
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip

Description	Enter the destination-ip context Packet matching criteria based on destination IPv6 address
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 destination-ip
Tree	destination-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *string*

Description Match a packet if its destination IPv6 address is within the specified IPv6 prefix

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 destination-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-set *(number | keyword)*

Description A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 dscp-set *(number | keyword)*

Tree dscp-set

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4

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- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description match an IPv6 packet if its IPv6 header Hop Limit is equal to the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 hop-limit *number*

Tree hop-limit

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp6

Description Enter the icmp6 context

Match ICMPv6 packets

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 icmp6

Tree icmp6

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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code *number*

Description Match an IPv6 packet if its ICMPv6 code matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 icmp6 code *number*

Tree code

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description Match an IPv6 packet if its ICMPv6 type matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 icmp6 type *number*

Tree type

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-header *(number | keyword)*

Description An IPv6 packet matches this condition if its Next-Header type field matches the specified value

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 next-header *(number | keyword)*

Tree next-header

Range 0 to 255

Options

- ipv6-hop

  IPv6 hop-by-hop option
- icmp

  Internet Control Message Protocol
- igmp

  Internet Group Management Protocol
- ggp

  Gateway-to-Gateway Protocol
- ipv4

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IPv4 encapsulation

- st
  Stream Protocol
- tcp
  Transmission Control Protocol
- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation
- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6
- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp

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Virtual Router Redundancy Protocol

- l2tp

  Layer Two Tunneling Protocol

- sctp

  Stream Control Transmission Protocol

- mpls-in-ip

  MPLS Encapsulation inside IP

- rohc

  Robust Header Compression

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group-id *number*

Description Match an IPv6 packet if it is forwarded by the specified NHG

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 next-hop-group-id *number*

Tree next-hop-group-id

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group-network-instance *reference*

Description Specify the network-instance scope of the next-hop-group-id

If not specified, the implied scope is the same as the one where the policy is defined.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 next-hop-group-network-instance *reference*

Tree next-hop-group-network-instance

Reference network-instance name *string*

Configurable True

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Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip

Description Enter the source-ip context

Packet matching criteria based on source IPv6 address

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 source-ip

Tree source-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description Match a packet if its source IPv6 address is within the specified IPv6 prefix

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match ipv6 source-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rdma-opcode *(string | number)*

Description Match RDMA packets based on the RDMA opcode value or inclusive opcode range

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match rdma-opcode *(string | number)*

Tree rdma-opcode

Range 0 to 255

Configurable True

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Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

transport

Description Enter the transport context

Container for match conditions associated with transport-layer packet fields

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match transport

Tree transport

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *(string | number | keyword)*

Description Destination port or range

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match transport destination-port *(string | number | keyword)*

Tree destination-port

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance

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- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client

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- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol

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- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx
  Internetwork Packet Exchange (IPX)

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- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

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Line Printer Daemon

- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1

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NETRJS protocol

- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp

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PKIX Time Stamp Protocol (TSP)

- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb

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RLZ DBase

- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission

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Email message submission (SMTP)

- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC

- svcloc

  Service Location Protocol (SLP)

- syslog

  Syslog (UDP) and Remote Shell (TCP)

- systat

  Active Users (systat service)

- tacacs

  TACACS Login Host protocol

- talk

  Talk

- tcpmux

  TCP Port Service Multiplexer (TCPMUX)

- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services

- tftp

  Trivial File Transfer Protocol (TFTP)

- time

  Time Protocol

- timed

  Timeserver

- ups

  Uninterruptible power supply (UPS)

- xdmcp

  X Display Manager Control Protocol (XDMCP)

- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)

- xns-mail

  Xerox Network Systems (XNS) Mail

- xns-time

  Xerox Network Systems (XNS) Time Protocol

- z3950

  ANSI Z39.50

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *(string | number | keyword)*

Description	Source port or range
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* match transport source-port *(string | number | keyword)*
Tree	source-port
Range	0 to 65535
Options	• acap Application Configuration Access Protocol • afp-tcp Apple Filing Protocol over TCP • arns A Remote Network Server System • asf-rmcp ASF Remote Management and Control Protocol & IPMI Remote Management Protocol • ashare AppleShare IP Web Administration • atalk-rm AppleTalk Routing Maintenance • aurp AppleTalk Update-Based Routing Protocol • auth Authentication Service • bfd Bidirectional Forwarding Detection Single Hop • bfd-echo BFD Echo • bftp Background File Transfer Program

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- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing

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- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server

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- hp-alarm-mgr

  HP data alarm manager
- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI

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- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link

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- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service

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- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages

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- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)

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- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol

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- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for per-rule statistics

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* statistics

Tree statistics

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Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

matched-octets *number*

Description	The number of octets packets matching the entry since it was programmed or since the last clear
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* statistics matched-octets *number*
Tree	matched-octets
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

matched-packets *number*

Description	The number of packets matching the entry since it was programmed or since the last clear
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* statistics matched-packets *number*
Tree	matched-packets
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

tcam-entries

Description	Enter the tcam-entries context Information about the TCAM entries used to implement the policy forwarding rule
Context	network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* tcam-entries
Tree	tcam-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex complex-identifier *string*

Description List of forwarding complexes in the system

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*

Tree forwarding-complex

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

complex-identifier *string*

Description A forwarding complex in the format (slot-number,complex-number).

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam-entries *number*

Description The number of TCAM entries required to implement this rule.

Context network-instance name *string* policy-forwarding policy policy-id *string* rule sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* tcam-entries *number*

Tree tcam-entries

Configurable False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the policy

Context network-instance name *string* policy-forwarding policy policy-id *string* type *keyword*

Tree type

Default vrf-selection-policy

Options

- pbr-policy

  The policy reflects a policy-based routing policy that supports generic PBR actions.
- vrf-selection-policy

  The policy is used only to classify incoming packets into corresponding network instances.
- match-action

  The policy supports a superset of ACL, QoS and PBR actions
- selective-load-balancing

  The policy supports selective load balancing match and actions

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

programming-errors

Description Enter the programming-errors context

Information about AFT programming errors affecting the network-instance

Context network-instance name *string* programming-errors

Tree programming-errors

Configurable False

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Platforms	Supported on all platforms

ip-routes

Description	Enter the ip-routes context Information about IP route hardware programming errors
Context	network-instance name *string* programming-errors ip-routes
Tree	ip-routes
Configurable	False
Platforms	Supported on all platforms

drop-route prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of blackhole route prefixes A drop route is a route that is installed in IP FIB (AFT) table but its programming was temporarily overriden to be a drop action due to a lack of dependent resources. Traffic destined for this prefix is currently being dropped.
Context	network-instance name *string* programming-errors ip-routes drop-route prefix *(ipv4-prefix | ipv6-prefix)*
Tree	drop-route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix that the route state corresponds to
Context	network-instance name *string* programming-errors ip-routes drop-route prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	Supported on all platforms

forwarding-complexes-with-errors *string*

Description	The list of linecard forwarding complexes with errors
Context	network-instance name *string* programming-errors ip-routes drop-route prefix *(ipv4-prefix | ipv6-prefix)* forwarding-complexes-with-errors *string*
Tree	forwarding-complexes-with-errors

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Configurable	False
Platforms	Supported on all platforms

time *string*

Description	Time when the route programming error was first detected (by one of the forwarding complexes)
Context	network-instance name *string* programming-errors ip-routes drop-route prefix *(ipv4-prefix | ipv6-prefix)* time *string*
Tree	time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

failed-route prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of failed route prefixes A failed route is a route that should be in the IP FIB (AFT) table but it is not because the attempt to add it failed. Traffic destined for this prefix will not be matched.
Context	network-instance name *string* programming-errors ip-routes failed-route prefix *(ipv4-prefix | ipv6-prefix)*
Tree	failed-route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix that the route state corresponds to
Context	network-instance name *string* programming-errors ip-routes failed-route prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	Supported on all platforms

forwarding-complexes-with-errors *string*

Description	The list of linecard forwarding complexes with errors

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Context	network-instance name *string* programming-errors ip-routes failed-route prefix *(ipv4-prefix | ipv6-prefix)* forwarding-complexes-with-errors *string*
Tree	forwarding-complexes-with-errors
Configurable	False
Platforms	Supported on all platforms

time *string*

Description	Time when the route programming error was first detected (by one of the forwarding complexes)
Context	network-instance name *string* programming-errors ip-routes failed-route prefix *(ipv4-prefix | ipv6-prefix)* time *string*
Tree	time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

stale-route prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of stale route prefixes A stale route is a route that is currently installed in IP FIB (AFT) table but a recent attempt to modify its programming state failed. Traffic destined for this prefix may be forwarded incorrectly.
Context	network-instance name *string* programming-errors ip-routes stale-route prefix *(ipv4-prefix | ipv6-prefix)*
Tree	stale-route
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix that the route state corresponds to
Context	network-instance name *string* programming-errors ip-routes stale-route prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	Supported on all platforms

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forwarding-complexes-with-errors *string*

Description	The list of linecard forwarding complexes with errors
Context	network-instance name *string* programming-errors ip-routes stale-route prefix *(ipv4-prefix | ipv6-prefix)* forwarding-complexes-with-errors *string*
Tree	forwarding-complexes-with-errors
Configurable	False
Platforms	Supported on all platforms

time *string*

Description	Time when the route programming error was first detected (by one of the forwarding complexes)
Context	network-instance name *string* programming-errors ip-routes stale-route prefix *(ipv4-prefix | ipv6-prefix)* time *string*
Tree	time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

total-errors *number*

Description	Total number of IP route hardware programming errors encountered Sum of failed routes, stale routes and drop routes
Context	network-instance name *string* programming-errors ip-routes total-errors *number*
Tree	total-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

tunnel-termination

Description	Enter the tunnel-termination context Information about tunnel-termination hardware programming errors. Only failed entries are reported. Additional encapsulation types may be added in a future release.

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Context	network-instance name *string* programming-errors tunnel-termination
Tree	tunnel-termination
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

vxlan

Description	Enter the vxlan context Failed VXLAN tunnel-termination programming entries. When source-vtep-security is enabled, each entry is a specific destination and source IP pair. When source-vtep-security is disabled, dest-ip is the loopback IP used for termination and src-ip is the all-zeros wildcard address (0.0.0.0 or ::).
Context	network-instance name *string* programming-errors tunnel-termination vxlan
Tree	vxlan
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)*

Description	List of failed VXLAN tunnel-termination entries An entry is present when programming of the corresponding VXLAN tunnel-termination failed on the identified linecard forwarding complex, typically due to insufficient shared tunnel-termination resources. Linecard and complex are list keys so they can be specified or wildcarded when fetching state or creating a telemetry subscription.
Context	network-instance name *string* programming-errors tunnel-termination vxlan failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)*
Tree	failed-entry
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

dest-ip *(ipv4-address | ipv6-address)*

Description	Destination IP address matched by the failed termination entry This is the local VTEP or loopback IP address that incoming VXLAN packets destined to this network-instance would match.

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Context	network-instance name *string* programming-errors tunnel-termination vxlan failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

src-ip *(ipv4-address | ipv6-address)*

Description	Source IP address matched by the failed termination entry When source-vtep-security is enabled this is the remote VTEP IP address. When source-vtep-security is disabled this is the all-zeros wildcard address (0.0.0.0 or ::), representing any source.
Context	network-instance name *string* programming-errors tunnel-termination vxlan failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

last-failed-complexes *string*

Description	List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* programming-errors tunnel-termination vxlan failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)* last-failed-complexes *string*
Tree	last-failed-complexes
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

time *string*

Description	Time of the most recent tunnel-termination programming error reported for this entry This is the highest timestamp reported across all forwarding complexes that currently have a failure for this destination and source IP pair.
Context	network-instance name *string* programming-errors tunnel-termination vxlan failed-entry dest-ip *(ipv4-address | ipv6-address)* src-ip *(ipv4-address | ipv6-address)* time *string*
Tree	time

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String Length	20 to 32
Configurable	False
Platforms	programming-errors-tunnel-termination-vxlan

protocols

Description	Enter the protocols context The routing protocols that are enabled for this network-instance.
Context	network-instance name *string* protocols
Tree	protocols
Configurable	True
Platforms	Supported on all platforms

bgp

Description	Top-level configuration and operational state for Border Gateway Protocol (BGP)
Context	network-instance name *string* protocols bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable the entire BGP instance Disable causes all BGP sessions to be taken down immediately, even if admin-state at the group or neighbor level of some of these sessions is still set as enable.
Context	network-instance name *string* protocols bgp admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

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afi-safi afi-safi-name *identityref*

Description	List of address families supported by the BGP instance
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref*
Tree	afi-safi
Configurable	True
Platforms	Supported on all platforms

afi-safi-name *identityref*

Description	The name of a BGP address family, which translates to a specific AFI value and a specific SAFI value
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref*
Options	• ipv4-unicast Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1) • ipv6-unicast Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1) • l3vpn-ipv4-unicast VPN-IPv4 unicast address family (AFI = 1, SAFI = 128) • l3vpn-ipv6-unicast VPN-IPv6 unicast address family (AFI = 2, SAFI = 128) • ipv4-labeled-unicast Labeled IPv4 unicast routes (AFI 1, SAFI 4) • ipv6-labeled-unicast Labeled IPv6 unicast routes (AFI 2, SAFI 4) • evpn EVPN routes (AFI = 25, SAFI = 70) • ipv4-mvpn L3 MVPN routes (AFI = 1, SAFI = 5) • ipv6-mvpn L3 MVPN routes (AFI = 2, SAFI = 5) • ipv4-flowspec-v1 FlowSpec routes (AFI = 1, SAFI = 133) • ipv6-flowspec-v1 FlowSpec routes (AFI = 2, SAFI = 133) • route-target

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Route target constraint routes (AFI 1, SAFI 132)

- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)

- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)

- link-state

  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

active-routes *number*

Description The total number of routes belonging to this AFI/SAFI that are installed and used, being best routes

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* active-routes *number*

Tree active-routes

Default 0

Configurable False

Platforms Supported on all platforms

add-paths

Description Enter the add-paths context

Configure support for the advertisement and receipt of multiple paths for the AFI/SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths

Tree add-paths

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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eligible-prefix-policy *reference*

Description Specifies a route policy to control the set prefixes that are eligible for the add-paths send behavior

If no policy is configured: advertise add-paths for every prefix according to the afi-safi configuration If a policy is configured and there is no match: advertise add-paths for the prefix according to the afi-safi configuration If a policy is configured and a route for prefix P is matched with an accept action: advertise add-paths for the prefix P according to the afi-safi configuration If a policy is configured and a route for prefix P is matched with a reject action: no add-paths are advertised for prefix P

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths eligible-prefix-policy *reference*

Tree eligible-prefix-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive *boolean*

Description Enable capability negotiation to receive multiple path advertisements from a single peer for a single NLRI belonging to the AFI/SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths receive *boolean*

Tree receive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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send *boolean*

Description Enable capability negotiation to send multiple path advertisements to a single peer for a single NLRI belonging to the AFI/SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths send *boolean*

Tree send

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-all

Description Send all valid paths for a single NLRI to add-paths capable peers, subject to next-hop diversity. A path is advertised if it is valid (next-hop resolvable, not rejected by export policy) and has a unique next-hop relative to better-ranked paths. The number of paths advertised may exceed the platform multipath limit. Intended for use on route reflectors and route servers where maximum path visibility is required.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths send-all

Tree send-all

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-max *number*

Description Send the N best paths for a single NLRI, or as many as possible until there are no more valid paths to send.

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This ensures the best path is advertised but does not limit the additional paths to being 'used' paths.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths send-max *number*

Tree send-max

Range 1 to 16

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-multipath

Description Send the used paths for a single NLRI, including all paths that are multipaths.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* add-paths send-multipath

Tree send-multipath

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description This leaf indicates whether the AFI-SAFI is enabled for the instance

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable

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- disable

Configurable True

Platforms Supported on all platforms

best-path-selection

Description Enter the best-path-selection context

Container with options that control the BGP decision process for a specific AFI-SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* best-path-selection

Tree best-path-selection

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b

accumulated-igp *boolean*

Description Set to true to enable AIGP metric comparison for all routes of the AFI-SAFI, and to add AIGP attribute to all imported/redistributed routes

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* best-path-selection accumulated-igp *boolean*

Tree accumulated-igp

Configurable True

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b

evpn

Description Enter the evpn context

Options related to the EVPN address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn

Tree evpn

Configurable True

Platforms Supported on all platforms

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advertise-ipv6-next-hops *boolean*

Description Enables advertisement of EVPN routes with IPv6 next-hops to peers

If this is set to true and the local-address used towards the peer is an IPv6 address and BGP is supposed to apply next-hop-self then the route is advertised with the IPv6 local-address as the BGP next-hop. If this is set to false, then the EVPN route is advertised with an IPv4 next-hop.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn advertise-ipv6-next-hops *boolean*

Tree advertise-ipv6-next-hops

Default false

Configurable True

Platforms Supported on all platforms

default-received-encapsulation *keyword*

Description Indicates the encapsulation considered when the routes are received without BGP encapsulation extended community

Most EVPN routes are usually received with a BGP encapsulation extended community that indicates the encapsulation and therefore how to interpret the value in the received Label fields of the routes. If no encapsulation is received, BGP will validate the route as MPLS or VXLAN or SRv6 depending on how this command is configured.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn default-received-encapsulation *keyword*

Tree default-received-encapsulation

Default vxlan

Options

- vxlan
- mpls

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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inter-as-vpn *boolean*

Description When set to true, received EVPN routes that are not imported by any network-instance are retained in the BGP RIB and considered 'used' so that they can be propagated to any EBGP or IBGP peer.

This command supersedes the effect of keep-all-routes.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn inter-as-vpn *boolean*

Tree inter-as-vpn

Default false

Configurable True

Platforms Supported on all platforms

keep-all-routes *boolean*

Description When this is set to true all received EVPN routes are retained in the RIB-IN, even those not imported by any network-instance; these routes display as 'rejected' and cannot be propagated to other peers.

When this is false, EVPN routes that are not imported by any network-instance are dropped and not retained in the BGP RIB-IN; policy changes affecting received EVPN routes will trigger the sending of ROUTE_ REFRESH messages towards all EVPN family peers.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn keep-all-routes *boolean*

Tree keep-all-routes

Default false

Configurable True

Platforms Supported on all platforms

next-hop-resolution

Description Enter the next-hop-resolution context

Options for controlling next-hop resolution procedures

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution

Tree next-hop-resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description Enter the ipv4-next-hops context

Options related to the resolution of BGP next-hops that are IPv4 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops

Tree ipv4-next-hops

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

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Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description Ignore default routes, regardless of route type

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops route-resolution ignore-default-routes *boolean*

Tree ignore-default-routes

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution

Tree tunnel-resolution

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6,

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7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag

Tree tag

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-next-hops

Description	Enter the ipv6-next-hops context Options related to the resolution of BGP next-hops that are IPv6 addresses
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops
Tree	ipv6-next-hops
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description	Enter the route-resolution context

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Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description Ignore default routes, regardless of route type

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops route-resolution ignore-default-routes *boolean*

Tree ignore-default-routes

Default true

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution

Tree tunnel-resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6,

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7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-self-route-reflector *boolean*

Description	When set to true, received EVPN MPLS routes are kept in the RIB and readvertised to the other route reflector clients with a local next-hop and EVI label This command triggers the programming of an EVI label swap operation for each received EVPN MPLS route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn next-hop-self-route-reflector *boolean*
Tree	next-hop-self-route-reflector
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rapid-update *boolean*

Description	When this is set to true, EVPN UPDATEs advertising reachability and withdrawals are advertised immediately, bypassing the session level min-route-advertisement-interval. When this is false, reachability updates and withdrawals are subject to the MRAI interval.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* evpn rapid-update *boolean*
Tree	rapid-update
Default	false
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	14

graceful-restart

Description	Enter the graceful-restart context BGP instance configuration of graceful restart operations applicable to a specific AFI-SAFI
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-route-retention

Description	Enter the extended-route-retention context Extended route retention configuration and state
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention
Tree	extended-route-retention
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable extended route retention

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-retention-policy *keyword*

Description Action to take for routes received from failed peers that do not match any of the retention policies

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention default-retention-policy *keyword*

Tree default-retention-policy

Default reject

Options

- accept

  Accept all non-matching routes
- reject

  Reject all non-matching routes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-policy *reference*

Description A list of routing policies that are applied to routes received from failed peers

Routes accepted by the policies are preserved as stale. Routes rejected by the policies are not preserved and withdrawn if required

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-policy *reference*

Tree retention-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

retention-time *number*

Description Time duration in seconds for which the device will retain stale routes under Extended Route Retention conditions

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-time *number*

Tree retention-time

Range 1 to 2147483647

Default 15552000

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description Apply an import policy to received BGP routes

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* import-policy *reference*

Tree import-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 14

ipv4-flowspec-v1

Description Enter the ipv4-flowspec-v1 context

Options related to the ipv4-flowspec-v1 address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-flowspec-v1

Tree ipv4-flowspec-v1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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validate

Description Enter the validate context

Options related to the validation of ipv4- or ipv6-flowspec-v1 routes

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 validate

Tree validate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dest-prefix *boolean*

Description When set to true, destination-prefix validation is applied to received Flow Spec v1 routes per RFC 8955 (ipv4-flowspec-v1) or RFC 8956 (ipv6-flowspec-v1).

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 validate dest-prefix *boolean*

Tree dest-prefix

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-labeled-unicast

Description Enter the ipv4-labeled-unicast context

Options related to the labeled IPv4-unicast address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast

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Tree	ipv4-labeled-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-paths

Description	Enter the backup-paths context Configure backup paths support for the AFI/SAFI
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast backup-paths
Tree	backup-paths
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description	Install a backup path for every NLRI in the address family, when a suitable one exists
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast backup-paths install *boolean*
Tree	install
Default	false
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description Enter the convergence context

Options for controlling and monitoring routing convergence of the relevant address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence

Tree convergence

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

converged-peers *number*

Description The number of peers that have sent an EOR marker for the address family since the last BGP restart

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence converged-peers *number*

Tree converged-peers

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-state *keyword*

Description Enter the convergence-state context

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence convergence-state *keyword*

Tree convergence-state

Options

- waiting

  BGP has recently restarted and no sessions have re-established yet
- started

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BGP has recently restarted and at least one session has re-established with support of the address family

- partial

  BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family.

- timeout

  BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired

- converged

  All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-time *number*

Description The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence convergence-time *number*

Tree convergence-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-up-peer-time *number*

Description The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence first-up-peer-time *number*

Tree first-up-peer-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-up-peer-time *number*

Description The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence last-up-peer-time *number*

Tree last-up-peer-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-wait-to-advertise *number*

Description The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer

The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence max-wait-to-advertise *number*

Tree max-wait-to-advertise

Range 0 to 3600

Default 0

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-max-wait-to-advertise *number*

Description The operational value of the max-wait-to-advertise timer for the address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence oper-max-wait-to-advertise *number*

Tree oper-max-wait-to-advertise

Range 0 to 10800

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence up-peers *number*
Tree	up-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description	Enter the next-hop-resolution context Options for controlling next-hop resolution procedures
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution
Tree	next-hop-resolution
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description Enter the ipv4-next-hops context

Options related to the resolution of BGP next-hops that are IPv4 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops

Tree ipv4-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description	Ignore default routes, regardless of route type
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution ignore-default-routes *boolean*
Tree	ignore-default-routes
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution
Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	List of allowed tunnel types
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• bgp-next-hop-resolution-tunnel-type

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Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-next-hops

Description Enter the ipv6-next-hops context

Options related to the resolution of BGP next-hops that are IPv6 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops

Tree ipv6-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ignore-default-routes *boolean*

Description	Ignore default routes, regardless of route type
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution ignore-default-routes *boolean*
Tree	ignore-default-routes
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution
Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	List of allowed tunnel types
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• bgp-next-hop-resolution-tunnel-type Base type for the types of tunnels that can be used by BGP for next-hop resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag

Tree tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rapid-update *boolean*

Description When true, label-ipv4 update messages are advertised immediately, bypassing the MRAI

When this is false, reachability updates and withdrawals are subject to the MRAI interval.

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast rapid-update *boolean*
Tree	rapid-update
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-labeled-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description	Enter the ipv4-unicast context Options related to the IPv4-unicast address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast
Tree	ipv4-unicast
Configurable	True
Platforms	Supported on all platforms

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advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Default	false
Configurable	True
Platforms	Supported on all platforms

backup-paths

Description	Enter the backup-paths context Configure backup paths support for the AFI/SAFI
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast backup-paths
Tree	backup-paths
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description	Install a backup path for every NLRI in the address family, when a suitable one exists
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast backup-paths install *boolean*
Tree	install
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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convergence

Description Enter the convergence context

Options for controlling and monitoring routing convergence of the relevant address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence

Tree convergence

Configurable True

Platforms Supported on all platforms

converged-peers *number*

Description The number of peers that have sent an EOR marker for the address family since the last BGP restart

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence converged-peers *number*

Tree converged-peers

Configurable False

Platforms Supported on all platforms

convergence-state *keyword*

Description Enter the convergence-state context

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence convergence-state *keyword*

Tree convergence-state

Options

- waiting

  BGP has recently restarted and no sessions have re-established yet
- started

  BGP has recently restarted and at least one session has re-established with support of the address family
- partial

  BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family.
- timeout

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BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired

- converged

  All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family

Configurable False

Platforms Supported on all platforms

convergence-time *number*

Description The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence convergence-time *number*

Tree convergence-time

Configurable False

Platforms Supported on all platforms

first-up-peer-time *number*

Description The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence first-up-peer-time *number*

Tree first-up-peer-time

Configurable False

Platforms Supported on all platforms

last-up-peer-time *number*

Description The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence last-up-peer-time *number*

Tree last-up-peer-time

Configurable False

Platforms Supported on all platforms

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max-wait-to-advertise *number*

Description	The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Configurable	True
Platforms	Supported on all platforms

oper-max-wait-to-advertise *number*

Description	The operational value of the max-wait-to-advertise timer for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence oper-max-wait-to-advertise *number*
Tree	oper-max-wait-to-advertise
Range	0 to 10800
Configurable	False
Platforms	Supported on all platforms

up-peers *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence up-peers *number*
Tree	up-peers
Configurable	False
Platforms	Supported on all platforms

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up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	Supported on all platforms

group-based-policy

Description	Enter the group-based-policy context Configuration and state related to group based policy
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast group-based-policy
Tree	group-based-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

add-community *boolean*

Description	When advertising routes, add a Group Policy ID extended community to routes that have a GBP tag
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast group-based-policy add-community *boolean*
Tree	add-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

install-from-community *boolean*

Description	When installing routes, program the GBP tag based on the received Group Policy ID extended community

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast group-based-policy install-from-community *boolean*
Tree	install-from-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

next-hop-resolution

Description	Enter the next-hop-resolution context Options for controlling next-hop resolution procedures
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution
Tree	next-hop-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description	Enter the ipv4-next-hops context Options related to the resolution of BGP next-hops that are IPv4 addresses
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops
Tree	ipv4-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution

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Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	List of allowed tunnel types
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• bgp-next-hop-resolution-tunnel-type Base type for the types of tunnels that can be used by BGP for next-hop resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description	Mode to control the order of tunnel resolution compared to route resolution
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution mode *keyword*
Tree	mode
Default	disabled
Options	• prefer • require • disabled
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag

Tree tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-next-hops

Description Enter the ipv6-next-hops context

Options related to the resolution of BGP next-hops that are IPv6 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops

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Tree ipv6-next-hops

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution

Tree tunnel-resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description Mode to control the order of tunnel resolution compared to route resolution

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution mode *keyword*

Tree mode

Default disabled

Options

- prefer
- require
- disabled

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag

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Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv4-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Default	false
Configurable	True
Platforms	Supported on all platforms

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ipv6-flowspec-v1

Description Enter the ipv6-flowspec-v1 context

Options related to the ipv6-flowspec-v1 address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-flowspec-v1

Tree ipv6-flowspec-v1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

validate

Description Enter the validate context

Options related to the validation of ipv4- or ipv6-flowspec-v1 routes

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 validate

Tree validate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dest-prefix *boolean*

Description When set to true, destination-prefix validation is applied to received Flow Spec v1 routes per RFC 8955 (ipv4-flowspec-v1) or RFC 8956 (ipv6-flowspec-v1).

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 validate dest-prefix *boolean*

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Tree	dest-prefix
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-labeled-unicast

Description	Enter the ipv6-labeled-unicast context Options related to the labeled IPv6-unicast address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast
Tree	ipv6-labeled-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-paths

Description	Enter the backup-paths context Configure backup paths support for the AFI/SAFI
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast backup-paths
Tree	backup-paths
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description	Install a backup path for every NLRI in the address family, when a suitable one exists

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast backup-paths install *boolean*
Tree	install
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description	Enter the convergence context Options for controlling and monitoring routing convergence of the relevant address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence
Tree	convergence
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

converged-peers *number*

Description	The number of peers that have sent an EOR marker for the address family since the last BGP restart
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence converged-peers *number*
Tree	converged-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-state *keyword*

Description	Enter the convergence-state context
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence convergence-state *keyword*

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Tree convergence-state

Options

- waiting

  BGP has recently restarted and no sessions have re-established yet

- started

  BGP has recently restarted and at least one session has re-established with support of the address family

- partial

  BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family.

- timeout

  BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired

- converged

  All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-time *number*

Description The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence convergence-time *number*

Tree convergence-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-up-peer-time *number*

Description The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence first-up-peer-time *number*

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Tree	first-up-peer-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-up-peer-time *number*

Description	The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence last-up-peer-time *number*
Tree	last-up-peer-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-wait-to-advertise *number*

Description	The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-max-wait-to-advertise *number*

Description	The operational value of the max-wait-to-advertise timer for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence oper-max-wait-to-advertise *number*
Tree	oper-max-wait-to-advertise
Range	0 to 10800
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence up-peers *number*
Tree	up-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-resolution

Description Enter the next-hop-resolution context

Options for controlling next-hop resolution procedures

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution

Tree next-hop-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description Enter the ipv4-next-hops context

Options related to the resolution of BGP next-hops that are IPv4 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops

Tree ipv4-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description Ignore default routes, regardless of route type

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops route-resolution ignore-default-routes *boolean*

Tree ignore-default-routes

Default true

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution

Tree tunnel-resolution

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo

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Tree	flex-algo
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy) If false, it is possible to select a tunnel that has a different algorithm than the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

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If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-next-hops

Description Enter the ipv6-next-hops context

Options related to the resolution of BGP next-hops that are IPv6 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops

Tree ipv6-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description	Ignore default routes, regardless of route type
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops route-resolution ignore-default-routes *boolean*
Tree	ignore-default-routes
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution
Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag

Tree tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rapid-update *boolean*

Description	When true, label-ipv6 update messages are advertised immediately, bypassing the MRAI When this is false, reachability updates and withdrawals are subject to the MRAI interval.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-labeled-unicast rapid-update *boolean*
Tree	rapid-update
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description	Enter the ipv6-unicast context Options related to the IPv6-unicast address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast
Tree	ipv6-unicast
Configurable	True
Platforms	Supported on all platforms

backup-paths

Description	Enter the backup-paths context

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Configure backup paths support for the AFI/SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast backup-paths

Tree backup-paths

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description Install a backup path for every NLRI in the address family, when a suitable one exists

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast backup-paths install *boolean*

Tree install

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description Enter the convergence context

Options for controlling and monitoring routing convergence of the relevant address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence

Tree convergence

Configurable True

Platforms Supported on all platforms

converged-peers *number*

Description The number of peers that have sent an EOR marker for the address family since the last BGP restart

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence converged-peers *number*
Tree	converged-peers
Configurable	False
Platforms	Supported on all platforms

convergence-state *keyword*

Description	Enter the convergence-state context
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence convergence-state *keyword*
Tree	convergence-state
Options	• waiting BGP has recently restarted and no sessions have re-established yet • started BGP has recently restarted and at least one session has re-established with support of the address family • partial BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family. • timeout BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired • converged All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family
Configurable	False
Platforms	Supported on all platforms

convergence-time *number*

Description	The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence convergence-time *number*
Tree	convergence-time
Configurable	False

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Platforms	Supported on all platforms

first-up-peer-time *number*

Description	The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence first-up-peer-time *number*
Tree	first-up-peer-time
Configurable	False
Platforms	Supported on all platforms

last-up-peer-time *number*

Description	The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence last-up-peer-time *number*
Tree	last-up-peer-time
Configurable	False
Platforms	Supported on all platforms

max-wait-to-advertise *number*

Description	The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Configurable	True
Platforms	Supported on all platforms

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oper-max-wait-to-advertise *number*

Description	The operational value of the max-wait-to-advertise timer for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence oper-max-wait-to-advertise *number*
Tree	oper-max-wait-to-advertise
Range	0 to 10800
Configurable	False
Platforms	Supported on all platforms

up-peers *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence up-peers *number*
Tree	up-peers
Configurable	False
Platforms	Supported on all platforms

up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	Supported on all platforms

group-based-policy

Description	Enter the group-based-policy context Configuration and state related to group based policy
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast group-based-policy

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Tree	group-based-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

add-community *boolean*

Description	When advertising routes, add a Group Policy ID extended community to routes that have a GBP tag
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast group-based-policy add-community *boolean*
Tree	add-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

install-from-community *boolean*

Description	When installing routes, program the GBP tag based on the received Group Policy ID extended community
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast group-based-policy install-from-community *boolean*
Tree	install-from-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

next-hop-resolution

Description	Enter the next-hop-resolution context Options for controlling next-hop resolution procedures
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution
Tree	next-hop-resolution
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description Enter the ipv4-next-hops context

Options related to the resolution of BGP next-hops that are IPv4 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops

Tree ipv4-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution

Tree tunnel-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description Mode to control the order of tunnel resolution compared to route resolution

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution mode *keyword*

Tree mode

Default disabled

Options

- prefer
- require
- disabled

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo
Tree	flex-algo
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy) If false, it is possible to select a tunnel that has a different algorithm than the route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-next-hops

Description Enter the ipv6-next-hops context

Options related to the resolution of BGP next-hops that are IPv6 addresses

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops

Tree ipv6-next-hops

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description Enter the tunnel-resolution context

Options related to resolution using tunnels in the tunnel table

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution

Tree tunnel-resolution

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description Mode to control the order of tunnel resolution compared to route resolution

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution mode *keyword*

Tree mode

Default disabled

Options

- prefer
- require
- disabled

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description	Enter the selection-attributes context Attributes for narrowing the selection of tunnels
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes
Tree	selection-attributes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description	Enter the flex-algo context Next-hop resolution constraints based on flexible algorithms
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo
Tree	flex-algo
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag

Tree tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* ipv6-unicast next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

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Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv4-unicast

Description	Enter the l3vpn-ipv4-unicast context Options related to the VPN-IPv4 unicast address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast
Tree	l3vpn-ipv4-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description	Enter the convergence context Options for controlling and monitoring routing convergence of the relevant address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence
Tree	convergence

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

converged-peers *number*

Description	The number of peers that have sent an EOR marker for the address family since the last BGP restart
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence converged-peers *number*
Tree	converged-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-state *keyword*

Description	Enter the convergence-state context
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence convergence-state *keyword*
Tree	convergence-state
Options	• waiting BGP has recently restarted and no sessions have re-established yet • started BGP has recently restarted and at least one session has re-established with support of the address family • partial BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family. • timeout BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired • converged All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-time *number*

Description	The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence convergence-time *number*
Tree	convergence-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-up-peer-time *number*

Description	The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence first-up-peer-time *number*
Tree	first-up-peer-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-up-peer-time *number*

Description	The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence last-up-peer-time *number*
Tree	last-up-peer-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-wait-to-advertise *number*

Description The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer

The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence max-wait-to-advertise *number*

Tree max-wait-to-advertise

Range 0 to 3600

Default 0

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-max-wait-to-advertise *number*

Description The operational value of the max-wait-to-advertise timer for the address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence oper-max-wait-to-advertise *number*

Tree oper-max-wait-to-advertise

Range 0 to 10800

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers *number*

Description The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence up-peers *number*

Tree up-peers

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inter-as-vpn *boolean*

Description	When set to true, received VPN-IPv4 routes that are not imported by any network-instance are retained in the BGP RIB and considered 'used' so that they can be propagated to any EBGP or IBGP peer. This command supersedes the effect of keep-all-routes. This command triggers the programming of a VPN label swap operation for each received VPN-IPv4 route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast inter-as-vpn *boolean*
Tree	inter-as-vpn
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keep-all-routes *boolean*

Description	When this is set to true all received VPN-IPv4 routes are retained in the RIB-IN, even those not imported by any network-instance; these routes display as 'rejected' and cannot be propagated to other peers

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When this is false, VPN-IPv4 routes that are not imported by any network-instance are dropped and not retained in the BGP RIB-IN; policy changes affecting received VPN-IPv4 routes will trigger the sending of ROUTE_ REFRESH messages towards all VPN-IPv4 family peers.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast keep-all-routes *boolean*

Tree keep-all-routes

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-self-route-reflector *boolean*

Description When set to true, received VPN-IPv4 routes are kept in the RIB and readvertised to the other route reflector clients with a local next-hop and VPN label

This command triggers the programming of a VPN label swap operation for each received VPN-IPv4 route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast next-hop-self-route-reflector *boolean*

Tree next-hop-self-route-reflector

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rapid-update *boolean*

Description When true, vpn-ipv4 update messages are advertised immediately, bypassing the MRAI

When this is false, reachability updates and withdrawals are subject to the MRAI interval.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast rapid-update *boolean*

Tree rapid-update

Default false

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops

When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast receive-ipv6-next-hops *boolean*

Tree receive-ipv6-next-hops

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv6-unicast

Description Enter the l3vpn-ipv6-unicast context

Options related to the VPN-IPv6 unicast address family

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast

Tree l3vpn-ipv6-unicast

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description Enter the convergence context

Options for controlling and monitoring routing convergence of the relevant address family

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence
Tree	convergence
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

converged-peers *number*

Description	The number of peers that have sent an EOR marker for the address family since the last BGP restart
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence converged-peers *number*
Tree	converged-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-state *keyword*

Description	Enter the convergence-state context
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence convergence-state *keyword*
Tree	convergence-state
Options	• waiting BGP has recently restarted and no sessions have re-established yet • started BGP has recently restarted and at least one session has re-established with support of the address family • partial BGP has recently restarted and at least one session has advertised an End-of-RIB marker for the address family. • timeout BGP has recently restarted and not all non-slow peers advertised an End-of-RIB marker for the address family before the max-wait-to-advertise timer expired • converged

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All non-slow peers that support the address family have have advertised the End-of-RIB marker for the address family

Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence-time *number*

Description	The elapsed time in seconds, starting from the last BGP restart, to reach the converged state for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence convergence-time *number*
Tree	convergence-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-up-peer-time *number*

Description	The time when the first session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence first-up-peer-time *number*
Tree	first-up-peer-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-up-peer-time *number*

Description	The time when the last session supporting the address family came up, measured from the time that the BGP instance restarted
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence last-up-peer-time *number*
Tree	last-up-peer-time
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-wait-to-advertise *number*

Description	The maximum amount of time, in seconds, measured from the time when the first session (configured or dynamic) that supports the address family comes up after a BGP restart, until BGP is allowed to advertise any routes in that address family to any peer The value of this leaf must always be greater than or equal to the operational value of min-wait-to-advertise. The default value is 3x the value of min-wait-to-advertise. A value of 0 means the feature is disabled and there is no additional delay before advertising routes of the address family.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-max-wait-to-advertise *number*

Description	The operational value of the max-wait-to-advertise timer for the address family
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence oper-max-wait-to-advertise *number*
Tree	oper-max-wait-to-advertise
Range	0 to 10800
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that are currently in the established state

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence up-peers *number*
Tree	up-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers-when-min-expired *number*

Description	The number of BGP sessions (configured and dynamic) that support the address family and that were in established state when the win-wait-to-advertise timer expired
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast convergence up-peers-when-min-expired *number*
Tree	up-peers-when-min-expired
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inter-as-vpn *boolean*

Description	When set to true, received VPN-IPv6 routes that are not imported by any network-instance are retained in the BGP RIB and considered 'used' so that they can be propagated to any EBGP or IBGP peer. This command supersedes the effect of keep-all-routes. This command triggers the programming of a VPN label swap operation for each received VPN-IPv6 route.
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast inter-as-vpn *boolean*
Tree	inter-as-vpn
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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keep-all-routes *boolean*

Description When this is set to true all received VPN-IPv6 routes are retained in the RIB-IN, even those not imported by any network-instance; these routes display as 'rejected' and cannot be propagated to other peers

When this is false, VPN-IPv6 routes that are not imported by any network-instance are dropped and not retained in the BGP RIB-IN; policy changes affecting received VPN-IPv6 routes will trigger the sending of ROUTE_ REFRESH messages towards all VPN-IPv6 family peers.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast keep-all-routes *boolean*

Tree keep-all-routes

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-self-route-reflector *boolean*

Description When set to true, received VPN-IPv6 routes are kept in the RIB and readvertised to the other route reflector clients with a local next-hop and VPN label

This command triggers the programming of a VPN label swap operation for each received VPN-IPv6 route.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast next-hop-self-route-reflector *boolean*

Tree next-hop-self-route-reflector

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rapid-update *boolean*

Description When true, vpn-ipv6 update messages are advertised immediately, bypassing the MRAI

When this is false, reachability updates and withdrawals are subject to the MRAI interval.

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast rapid-update *boolean*
Tree	rapid-update
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multipath

Description	Enter the multipath context Options related to BGP multipath
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath
Tree	multipath
Configurable	True
Platforms	Supported on all platforms

allow-multiple-as *boolean*

Description	When set to true, BGP is allowed to build a multipath set using BGP routes with different neighbor AS (most recent AS in the AS_PATH) When set to false, BGP is only allowed to use non-best paths for ECMP if they meet the multipath criteria and they have the same neighbor AS as the best path
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath allow-multiple-as *boolean*
Tree	allow-multiple-as
Default	true
Configurable	True
Platforms	Supported on all platforms

ebgp

Description	Enter the ebgp context Multipath configuration options that apply when the best path for the prefix was received from an EBGP peer

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ebgp
Tree	ebgp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-paths *number*

Description	The maximum number of BGP ECMP next-hops for BGP routes with an NLRI belonging to the address family of this configuration context
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ebgp maximum-paths *number*
Tree	maximum-paths
Range	1 to 256
Default	1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weighted-ecmp

Description	Enter the weighted-ecmp context Weighted-ecmp for the AFI/SAFI
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ebgp weighted-ecmp
Tree	weighted-ecmp
Configurable	True

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Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set to enable, weighted ECMP is programmed for all routes of the AFI-SAFI for which the best path was received an EBGP peer

Irrespective of this setting, weighted ECMP is only possible if all the multipath-eligible routes have link-bandwidth extended communities

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ebgp weighted-ecmp admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ibgp

Description Enter the ibgp context

Multipath configuration options that apply when the best path for the prefix was received from an IBGP peer

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ibgp

Tree ibgp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-paths *number*

Description The maximum number of BGP ECMP next-hops for BGP routes with an NLRI belonging to the address family of this configuration context

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ibgp maximum-paths *number*

Tree maximum-paths

Range 1 to 256

Default 1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weighted-ecmp

Description Enter the weighted-ecmp context

Weighted-ecmp for the AFI/SAFI

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ibgp weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set to enable, weighted ECMP is programmed for all routes of the AFI-SAFI for which the best path was received an IBGP peer

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Irrespective of this setting, weighted ECMP is only possible if all the multipath-eligible routes have link-bandwidth extended communities

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath ibgp weighted-ecmp admin-state *keyword*

Tree admin-state

Options
- enable
- disable

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-paths *number*

Description The maximum number of BGP ECMP next-hops for BGP routes with an NLRI belonging to the address family of this configuration context

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* multipath maximum-paths *number*

Tree maximum-paths

Range 1 to 256

Default 1

Configurable True

Platforms Supported on all platforms

origin-validation

Description Enter the origin-validation context

Origin validation configuration and statistics for this BGP instance AFI-SAFI.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation

Tree origin-validation

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable origin validation for this AFI-SAFI at the BGP instance level

Enabling here does not automatically enable origin validation at the peer-group or neighbor level. Each scope requires explicit admin-state enable configuration. This is consistent with SR OS behavior and is an intentional deviation from the standard SR Linux configuration inheritance model.

Defaults to disable. Origin validation is explicitly opt-in per address family.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Origin validation prefix counts for this scope. Counts reflect routes whose origin-validation-state has been determined by lookup against the local ROA database. Routes with origin validation disabled are not counted.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-prefixes *number*

Description Number of prefixes with origin-validation-state invalid

The route prefix matched a ROA entry but either the origin AS did not match or the prefix-length exceeded the ROA max-prefix-length.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation statistics invalid-prefixes *number*

Tree invalid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-updated *string*

Description Timestamp of the most recent change to any origin-validation-state counter in this statistics scope

Updated whenever a prefix transitions between valid, invalid, or not-found states. Not present if no origin validation has been performed in this scope since the last statistics reset.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation statistics last-updated *string*

Tree last-updated

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-found-prefixes *number*

Description Number of prefixes with origin-validation-state not-found

No matching ROA entry exists for the route prefix in the local ROA database.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation statistics not-found-prefixes *number*

Tree not-found-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-prefixes *number*

Description Number of prefixes with origin-validation-state valid

The route prefix matched a ROA entry with a matching origin AS and acceptable prefix-length.

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* origin-validation statistics valid-prefixes *number*

Tree valid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-routes *number*

Description The total number of routes belonging to this AFI/SAFI received from all peers of the BGP instance

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Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* received-routes *number*

Tree received-routes

Default 0

Configurable False

Platforms Supported on all platforms

send-community-type *keyword*

Description Specify the types of community that should be sent to all peers

By default all three community types are sent to all peers. If value none is included in the leaf-list, then other values are ignored

Context network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* send-community-type *keyword*

Tree send-community-type

Options

- none

  Send no communities

- standard

  Send standard communities

- extended

  Send extended communities

- large

  Send large communities

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-ipv4

Description Enter the srte-policy-ipv4 context

Options related to the address family used to advertise segment routing policies with IPv4 endpoints

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Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* srte-policy-ipv4
Tree	srte-policy-ipv4
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-static *boolean*

Description	When true, add non-local IPv4-endpoint static candidate paths to the BGP RIB as SR policy routes (AFI1, SAFI73)
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* srte-policy-ipv4 import-static *boolean*
Tree	import-static
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-ipv6

Description	Enter the srte-policy-ipv6 context Options related to the address family used to advertise segment routing policies with IPv6 endpoints
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* srte-policy-ipv6
Tree	srte-policy-ipv6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-static *boolean*

Description	When true, add non-local IPv6-endpoint static candidate paths to the BGP RIB as SR policy routes (AFI2, SAFI73)
Context	network-instance name *string* protocols bgp afi-safi afi-safi-name *identityref* srte-policy-ipv6 import-static *boolean*

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Tree	import-static
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-path-options

Description	Enter the as-path-options context Options for handling the AS_PATH in received BGP routes
Context	network-instance name *string* protocols bgp as-path-options
Tree	as-path-options
Configurable	True
Platforms	Supported on all platforms

allow-own-as *number*

Description	The maximum number of times the global AS number or a local AS number of the BGP instance can appear in any received AS_PATH before it is considered a loop and considered invalid
Context	network-instance name *string* protocols bgp as-path-options allow-own-as *number*
Tree	allow-own-as
Default	0
Configurable	True
Platforms	Supported on all platforms

remove-private-as

Description	Enter the remove-private-as context Container with options for removing private AS numbers (2-byte and 4-byte) from the advertised AS path towards all peers
Context	network-instance name *string* protocols bgp as-path-options remove-private-as
Tree	remove-private-as
Configurable	True

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Platforms	Supported on all platforms

ignore-peer-as *boolean*

Description	If set to true then do not delete or replace a private AS number that is the same as the peer AS number
Context	network-instance name *string* protocols bgp as-path-options remove-private-as ignore-peer-as *boolean*
Tree	ignore-peer-as
Default	false
Configurable	True
Platforms	Supported on all platforms

leading-only *boolean*

Description	If set to true then only delete or replace private AS numbers that appear before the first occurrence of a non-private ASN in the sequence of most recent ASNs in the AS path
Context	network-instance name *string* protocols bgp as-path-options remove-private-as leading-only *boolean*
Tree	leading-only
Default	false
Configurable	True
Platforms	Supported on all platforms

mode *keyword*

Description	The method by which private AS numbers are removed from the advertised AS_PATH attribute
Context	network-instance name *string* protocols bgp as-path-options remove-private-as mode *keyword*
Tree	mode
Default	disabled
Options	• disabled Do not strip or replace any private AS numbers • delete Delete private AS numbers, shortening the AS path • replace

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Replace private AS numbers with the local AS number used towards the peer, maintaining the AS path length

Configurable True

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container with authentication options that apply to all peers of the BGP instance

Context network-instance name *string* protocols bgp authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

keychain *reference*

Description Reference to a keychain. The keychain type must be tcp-md5.

Context network-instance name *string* protocols bgp authentication keychain *reference*

Tree keychain

Reference system authentication keychain name *string*

Configurable True

Platforms Supported on all platforms

password *string*

Description Configures an MD5 authentication password for use with neighboring devices.

Context network-instance name *string* protocols bgp authentication password *string*

Tree password

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

autonomous-system *number*

Description The global AS number of the BGP instance

Values greater than 65535 must be entered in ASPLAIN format.

Context network-instance name *string* protocols bgp autonomous-system *number*

Tree autonomous-system

Range 1 to 4294967295

Configurable True

Platforms Supported on all platforms

best-path-selection

Description Enter the best-path-selection context

Container with options that control the BGP decision process (tie break between routes for the same NLRI).

Context network-instance name *string* protocols bgp best-path-selection

Tree best-path-selection

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-inactive *boolean*

Description Advertise the best BGP route even if it is inactive due to the programming of a better non-BGP route

Context network-instance name *string* protocols bgp best-path-selection advertise-inactive *boolean*

Tree advertise-inactive

Default false

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

always-compare-med *boolean*

Description	Compare multi-exit discriminator (MED) value from different ASes when selecting the best route. The default behavior is to only compare MEDs for paths received from the same AS.
Context	network-instance name *string* protocols bgp best-path-selection always-compare-med *boolean*
Tree	always-compare-med
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

compare-origin-validation-state *boolean*

Description	Compare origin-validation-state as a step in best path selection When set to true, origin-validation-state is compared as an additional step immediately before the LOCAL_PREF comparison. Routes with state valid are preferred over routes with state not-found, which are preferred over routes with state invalid. This provides a traffic-engineering mechanism to prefer RPKI-validated paths without requiring route policy.
Context	network-instance name *string* protocols bgp best-path-selection compare-origin-validation-state *boolean*
Tree	compare-origin-validation-state
Default	false
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-domain-path-length *boolean*

Description	Ignore the Domain Path (D-PATH) length when selecting the best path The default behavior is to use the D-PATH length and prefer paths with shorter D-PATH length.
Context	network-instance name *string* protocols bgp best-path-selection ignore-domain-path-length *boolean*
Tree	ignore-domain-path-length
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-invalid-unusable *boolean*

Description	Treat routes with invalid origin-validation-state as unusable When set to true, routes whose origin-validation-state is invalid are excluded from best path selection and are not used for forwarding. The routes remain in the RIB-IN for visibility but are marked unusable. This is the enforcement mode for RPKI origin validation. It is recommended to deploy with compare-origin-validation-state first in monitoring mode before enabling this knob.
Context	network-instance name *string* protocols bgp best-path-selection origin-invalid-unusable *boolean*
Tree	origin-invalid-unusable
Default	false
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-label

Description	Enable the bgp-label context
Context	network-instance name *string* protocols bgp bgp-label
Tree	bgp-label
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-ipvpn

Description	Enter the bgp-ipvpn context
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn
Tree	bgp-ipvpn
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description	Enter the next-hop-resolution context Options for controlling next-hop resolution procedures
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution
Tree	next-hop-resolution
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-next-hops

Description Enter the ipv4-next-hops context

Options related to the resolution of BGP next-hops that are IPv4 addresses

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops

Tree ipv4-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description Enter the route-resolution context

Options related to resolution using IP routes in the FIB

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops route-resolution

Tree route-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable route resolution if no resolving tunnel is found

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops route-resolution admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description	Ignore default routes, regardless of route type
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops route-resolution ignore-default-routes *boolean*
Tree	ignore-default-routes
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution
Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	List of allowed tunnel types
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• bgp-next-hop-resolution-tunnel-type Base type for the types of tunnels that can be used by BGP for next-hop resolution
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv4-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-next-hops

Description	Enter the ipv6-next-hops context Options related to the resolution of BGP next-hops that are IPv6 addresses
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops

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Tree	ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-resolution

Description	Enter the route-resolution context Options related to resolution using IP routes in the FIB
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops route-resolution
Tree	route-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable or disable route resolution if no resolving tunnel is found
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops route-resolution admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ignore-default-routes *boolean*

Description	Ignore default routes, regardless of route type
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops route-resolution ignore-default-routes *boolean*
Tree	ignore-default-routes

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Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-resolution

Description	Enter the tunnel-resolution context Options related to resolution using tunnels in the tunnel table
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution
Tree	tunnel-resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description	List of allowed tunnel types
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution allowed-tunnel-types *identityref*
Tree	allowed-tunnel-types
Options	• bgp-next-hop-resolution-tunnel-type Base type for the types of tunnels that can be used by BGP for next-hop resolution
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-attributes

Description	Enter the selection-attributes context Attributes for narrowing the selection of tunnels
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes

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Tree selection-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

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Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp bgp-label bgp-ipvpn next-hop-resolution ipv6-next-hops tunnel-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-vpn

Description	Enter the bgp-vpn context
Context	network-instance name *string* protocols bgp bgp-label bgp-vpn
Tree	bgp-vpn
Configurable	True
Platforms	Supported on 7250 IXR

dynamic-label-block *reference*

Description	Reference to a dynamic label block used for non-local BGP VPN routes advertised with next-hop-self
Context	network-instance name *string* protocols bgp bgp-label bgp-vpn dynamic-label-block *reference*
Tree	dynamic-label-block

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Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	Supported on 7250 IXR

dynamic-label-block-status *keyword*

Description	Status of the label block. The label block may show as unavailable if there is pending cleanup.
Context	network-instance name *string* protocols bgp bgp-label bgp-vpn dynamic-label-block-status *keyword*
Tree	dynamic-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	Supported on 7250 IXR

labeled-unicast

Description	Enter the labeled-unicast context
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast
Tree	labeled-unicast
Configurable	True
Platforms	Supported on 7250 IXR platforms

dynamic-label-block *reference*

Description	Reference to a dynamic label block
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast dynamic-label-block *reference*
Tree	dynamic-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	Supported on 7250 IXR platforms

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dynamic-label-block-status *keyword*

Description Status of the label block.

The label block may show as unavailable if there is pending cleanup.

Context network-instance name *string* protocols bgp bgp-label labeled-unicast dynamic-label-block-status *keyword*

Tree dynamic-label-block-status

Options
- available
- unavailable

Configurable False

Platforms Supported on 7250 IXR platforms

label-table

Description Enter the label-table context

BGP-LU incoming label table SWAP entries associated with the network instance

Context network-instance name *string* protocols bgp bgp-label labeled-unicast label-table

Tree label-table

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-entry label-value *number*

Description Enter the label-entry list instance

Context network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number*

Tree label-entry

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-value *number*

Description The MPLS label value that is programmed for a swap operation

Context network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number*

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

counters

Description Enter the counters context

Packet forwarding counters

Context network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number* counters

Tree counters

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets-forwarded *number*

Description The number of octets in packets forwarded

Context network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number* counters octets-forwarded *number*

Tree octets-forwarded

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-forwarded *number*

Description The number of packets forwarded

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Context	network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description	Indication whether resource allocation succeeded or failed for the set of counters
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number* counters resource-allocation *keyword*
Tree	resource-allocation
Options	• success Counter resource allocation succeeded • failed Counter resource allocation failed
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the MPLS label value
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast label-table label-entry label-value *number* ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selective-labeled-unicast-install

Description	Enable the selective-labeled-unicast-install context

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Context	network-instance name *string* protocols bgp bgp-label labeled-unicast selective-labeled-unicast-install
Tree	selective-labeled-unicast-install
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

program-label-swap *boolean*

Description	When true, program a label swap entry even when the route is not installed as a tunnel
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast selective-labeled-unicast-install program-label-swap *boolean*
Tree	program-label-swap
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

program-route *boolean*

Description	When true, program IP FIB entry even when the route is not installed as a tunnel
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast selective-labeled-unicast-install program-route *boolean*
Tree	program-route
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-table

Description	Enter the tunnel-table context BGP-LU tunnel table associated with the network instance

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Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table
Tree	tunnel-table
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the tunnel list instance
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	tunnel
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the endpoint of the tunnel
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

counters

Description	Enter the counters context Packet forwarding counters
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)* counters
Tree	counters
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets-forwarded *number*

Description	The number of octets in packets forwarded
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description	Indication whether resource allocation succeeded or failed for the set of counters
Context	network-instance name *string* protocols bgp bgp-label labeled-unicast tunnel-table tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)* counters resource-allocation *keyword*
Tree	resource-allocation
Options	• success Counter resource allocation succeeded

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- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bmp

Description Enter the bmp context

BGP Monitoring Protocol configuration and state

Context network-instance name *string* protocols bgp bmp

Tree bmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable BMP for the network-instance

Context network-instance name *string* protocols bgp bmp admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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station name *string*

Description	List of BMP collectors (stations)
Context	network-instance name *string* protocols bgp bmp station name *string*
Tree	station
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *string*

Description	The configured name of the BMP station
Context	network-instance name *string* protocols bgp bmp station name *string*
String Length	1 to 64
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	The IP address of the BMP collector
Context	network-instance name *string* protocols bgp bmp station name *string* address *(ipv4-address | ipv6-address)*
Tree	address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the BMP station

Context network-instance name *string* protocols bgp bmp station name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-mode *keyword*

Description The connection mode for the BMP session

Context network-instance name *string* protocols bgp bmp station name *string* connection-mode *keyword*

Tree connection-mode

Default active

Options

- active

  Router initiates connection to collector
- passive

  Router listens for collector connection

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description A user provided description string for the BMP station

Context network-instance name *string* protocols bgp bmp station name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

initiation-message *string*

Description String to include in the BMP Initiation Message sent to the collector

Context network-instance name *string* protocols bgp bmp station name *string* initiation-message *string*

Tree initiation-message

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local-address *(ipv4-address | ipv6-address)*

Description	The local IP address used as the source for the BMP session
Context	network-instance name *string* protocols bgp bmp station name *string* local-address *(ipv4-address | ipv6-address)*
Tree	local-address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-port *number*

Description	The local TCP port used for the BMP session
Context	network-instance name *string* protocols bgp bmp station name *string* local-port *number*
Tree	local-port
Range	0 to 65535
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *number*

Description	The TCP port number of the BMP collector
Context	network-instance name *string* protocols bgp bmp station name *string* port *number*
Tree	port
Range	0 to 65535
Default	5000

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-monitoring-policy *identityref*

Description List of route monitoring policies to apply for this station. At least one policy is required at the station level.

Context network-instance name *string* protocols bgp bmp station name *string* route-monitoring-policy *identityref*

Tree route-monitoring-policy

Options

- pre-policy-rib-in

  Monitor Adj-RIB-In before import policy application

- post-policy-rib-in

  Monitor Adj-RIB-In after import policy application

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

state

Description Enter the state context

Operational state of the BMP station

Context network-instance name *string* protocols bgp bmp station name *string* state

Tree state

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-attempt-count *number*

Description Number of connection attempts to the collector

Context network-instance name *string* protocols bgp bmp station name *string* state connection-attempt-count *number*

Tree connection-attempt-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-error *string*

Description Description of the last error encountered

Context network-instance name *string* protocols bgp bmp station name *string* state last-error *string*

Tree last-error

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-state-change *string*

Description	Timestamp of the last session state change
Context	network-instance name *string* protocols bgp bmp station name *string* state last-state-change *string*
Tree	last-state-change
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

messages-failed *number*

Description	Number of BMP messages that failed to send
Context	network-instance name *string* protocols bgp bmp station name *string* state messages-failed *number*
Tree	messages-failed
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

messages-sent *number*

Description	Total number of BMP messages sent to the collector
Context	network-instance name *string* protocols bgp bmp station name *string* state messages-sent *number*
Tree	messages-sent
Default	0

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

monitored-peers *number*

Description	Number of BGP peers currently monitored by this station
Context	network-instance name *string* protocols bgp bmp station name *string* state monitored-peers *number*
Tree	monitored-peers
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-state *keyword*

Description	Current state of the BMP session
Context	network-instance name *string* protocols bgp bmp station name *string* state session-state *keyword*
Tree	session-state
Options	• idle BMP session is not established • connecting BMP session is attempting to connect • established BMP session is established • terminating

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BMP session is terminating

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-uptime *string*

Description Time since the BMP session was established

Context network-instance name *string* protocols bgp bmp station name *string* state session-uptime *string*

Tree session-uptime

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics-reporting

Description Enter the statistics-reporting context

Container for BMP statistics reporting configuration

Context network-instance name *string* protocols bgp bmp station name *string* statistics-reporting

Tree statistics-reporting

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable statistics reporting

Context network-instance name *string* protocols bgp bmp station name *string* statistics-reporting admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description Interval for sending periodic statistics reports

Context network-instance name *string* protocols bgp bmp station name *string* statistics-reporting interval *number*

Tree interval

Range 15 to 65535

Default 3600

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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suppress-rejected-routes *boolean*

Description When true, routes rejected by import policy are not sent in post-policy-rib-in monitoring

Context network-instance name *string* protocols bgp bmp station name *string* suppress-rejected-routes *boolean*

Tree suppress-rejected-routes

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-parameters

Description Enter the tcp-parameters context

Container with TCP connection parameters for the BMP session

Context network-instance name *string* protocols bgp bmp station name *string* tcp-parameters

Tree tcp-parameters

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description Enter the authentication context

Container with authentication options for the BMP session

Context network-instance name *string* protocols bgp bmp station name *string* tcp-parameters authentication

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Tree	authentication
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keychain *reference*

Description	Reference to a keychain for TCP MD5 authentication
Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password *string*

Description	Configures an MD5 authentication password for use with the BMP collector
Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters authentication password *string*
Tree	password
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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connect-retry

Description Enter the connect-retry context

Connection retry parameters

Context network-instance name *string* protocols bgp bmp station name *string* tcp-parameters connect-retry

Tree connect-retry

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description Time interval between connection retry attempts

Context network-instance name *string* protocols bgp bmp station name *string* tcp-parameters connect-retry interval *number*

Tree interval

Range 1 to 3600

Default 120

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive

Description Enter the keepalive context

TCP keepalive parameters

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Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters keepalive
Tree	keepalive
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

idle-time *number*

Description	Time before sending first keepalive probe
Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters keepalive idle-time *number*
Tree	idle-time
Range	60 to 7200
Default	60
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-count *number*

Description	Number of keepalive probes before declaring connection dead
Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters keepalive probe-count *number*
Tree	probe-count
Range	1 to 10
Default	3
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-interval *number*

Description	Interval between keepalive probes
Context	network-instance name *string* protocols bgp bmp station name *string* tcp-parameters keepalive probe-interval *number*
Tree	probe-interval
Range	1 to 300
Default	30
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport-network-instance *reference*

Description	Network-instance used for TCP transport to the BMP collector. When configured, the TCP connection to the collector is established in this network-instance instead of the network-instance where BMP is configured. This enables out-of-band collector reachability via the management network-instance (e.g. mgmt). If not specified, the parent network-instance is used.
Context	network-instance name *string* protocols bgp bmp station name *string* transport-network-instance *reference*
Tree	transport-network-instance
Reference	network-instance name *string*
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

BMP operational statistics

Context network-instance name *string* protocols bgp bmp statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-peer-down-sent *number*

Description Total number of peer down notification messages sent

Context network-instance name *string* protocols bgp bmp statistics total-peer-down-sent *number*

Tree total-peer-down-sent

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-peer-up-sent *number*

Description	Total number of peer up notification messages sent
Context	network-instance name *string* protocols bgp bmp statistics total-peer-up-sent *number*
Tree	total-peer-up-sent
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-peers-monitored *number*

Description	Total number of BGP peers monitored across all stations
Context	network-instance name *string* protocols bgp bmp statistics total-peers-monitored *number*
Tree	total-peers-monitored
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-route-monitoring-sent *number*

Description	Total number of route monitoring messages sent
Context	network-instance name *string* protocols bgp bmp statistics total-route-monitoring-sent *number*
Tree	total-route-monitoring-sent
Default	0

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-statistics-sent *number*

Description	Total number of statistics report messages sent
Context	network-instance name *string* protocols bgp bmp statistics total-statistics-sent *number*
Tree	total-statistics-sent
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vrf-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	VRF Route Distinguisher used in BMP messages for peers in this network-instance
Context	network-instance name *string* protocols bgp bmp vrf-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*
Tree	vrf-distinguisher
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-malformed-updates

Description Execute the clear-malformed-updates action

Clear retained malformed treat-as-withdraw BGP UPDATE entries

Context network-instance name *string* protocols bgp clear-malformed-updates

Tree clear-malformed-updates

Configurable True

Note This is an action command

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

convergence

Description Enter the convergence context

Options for configuring address family independent BGP convergence parameters

Context network-instance name *string* protocols bgp convergence

Tree convergence

Configurable True

Platforms Supported on all platforms

min-wait-to-advertise *number*

Description The minimum amount of time, in seconds, measured from the moment when the first session (configured or dynamic) comes up after a BGP restart, until BGP is allowed to advertise any routes to any peer

The sessions that are established when this timer expires determines the set of peers from which EOR is expected in order to declare convergence for an address family. A value of 0 means the feature is disabled and all routes are advertised immediately.

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	This timer and associated state machine are only restarted by one of the following triggers:
Context	network-instance name *string* protocols bgp convergence min-wait-to-advertise *number*
Tree	min-wait-to-advertise
Range	0 to 3600
Default	0
Configurable	True
Platforms	Supported on all platforms

dynamic-neighbors

Description	Enter the dynamic-neighbors context Options related to the acceptance and initiation of dynamic BGP sessions
Context	network-instance name *string* protocols bgp dynamic-neighbors
Tree	dynamic-neighbors
Configurable	True
Platforms	Supported on all platforms

accept

Description	Enter the accept context Options related to the acceptance of dynamic BGP sessions from remote peers
Context	network-instance name *string* protocols bgp dynamic-neighbors accept
Tree	accept
Configurable	True
Platforms	Supported on all platforms

match prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of prefix and group-id combinations from which incoming TCP connections to port 179 will be accepted An incoming TCP connection to port 179 is matched to a list entry if: (a) the source IP does not match a configured BGP neighbor address (b) the list entry prefix is the longest prefix match of the source IP. (c) the source IP is not an IPv6 link-local address associated with an (unnumbered) interface configured for dynamic-neighbor sessions.

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Context	network-instance name *string* protocols bgp dynamic-neighbors accept match prefix *(ipv4-prefix | ipv6-prefix)*
Tree	match
Configurable	True
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IP prefix used to match an incoming dynamic BGP session to a group.
Context	network-instance name *string* protocols bgp dynamic-neighbors accept match prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	Supported on all platforms

allowed-peer-as *string*

Description	The allowed AS numbers that can establish incoming BGP sessions from this prefix and group-id-range combination If the OPEN message from a peer matched to this prefix contains a MyAS number that is not in this allowed list then a NOTIFICATION is sent to the peer with the indication Bad Peer AS. Each entry in this list can be a single AS number or a range of AS numbers in the format as1..as2
Context	network-instance name *string* protocols bgp dynamic-neighbors accept match prefix *(ipv4-prefix | ipv6-prefix)* allowed-peer-as *string*
Tree	allowed-peer-as
String Length	1 to 22
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

peer-group *reference*

Description	Reference to a peer-group When an incoming session is matched to this list entry it is associated with the peer-group referenced by this leaf. The peer-group provides all the parameters needed to complete the establishment of the dynamic session. If the referenced peer-group has a configured peer-as this is ignored by dynamic BGP sessions using the group as a template.

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Context	network-instance name *string* protocols bgp dynamic-neighbors accept match prefix *(ipv4-prefix | ipv6-prefix)* peer-group *reference*
Tree	peer-group
Reference	network-instance name *string* protocols bgp group group-name *string*
Configurable	True
Platforms	Supported on all platforms

max-sessions *number*

Description	The maximum number of incoming BGP sessions that will be accepted by the router A value of 0 means no limit.
Context	network-instance name *string* protocols bgp dynamic-neighbors accept max-sessions *number*
Tree	max-sessions
Default	0
Configurable	True
Platforms	Supported on all platforms

interface interface-name *string*

Description	List of interfaces on which dynamic sessions based on IPv6 link-local address discovery are accepted and initiated.
Context	network-instance name *string* protocols bgp dynamic-neighbors interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

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The referenced subinterface should be enabled for IPv6 and should be configured to accept and send IPv6 router advertisement messages. The referenced subinterface does not need any IPv4 addresses or global-unicast IPv6 addresses (i.e. it can be an unnumbered interface).

When a subinterface is present in this list, incoming TCP connections to the BGP well-known port that are received on this subinterface and sourced from an IPv6 link local address and destined for the IPv6 link local address of the subinterface are automatically accepted.

When a subinterface is present in this list, received IPv6 router advertisement messages on this subinterface automatically trigger BGP session setup towards the sender of these messages, if there is not already an established session.

Context network-instance name *string* protocols bgp dynamic-neighbors interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-peer-as *string*

Description Specifies the allowed AS numbers of dynamic BGP neighbors on this interface. If the OPEN message from a peer on this interface contains a MyAS number that is not in this allowed list then a NOTIFICATION is sent to the peer with the indication Bad Peer AS. Each entry in this list can be a single AS number or a range of AS numbers in the string format as1..as2.

Context network-instance name *string* protocols bgp dynamic-neighbors interface interface-name *string* allowed-peer-as *string*

Tree allowed-peer-as

String Length 1 to 22

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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	IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

max-sessions *number*

Description	The maximum number of dynamic sessions that are allowed to be setup on the interface as a result of accepting sessions from link-local addresses or initiating sessions by means of receiving IPv6 router advertisements.
Context	network-instance name *string* protocols bgp dynamic-neighbors interface interface-name *string* max-sessions *number*
Tree	max-sessions
Default	1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-group *reference*

Description	Reference to a peer-group Specifies the peer-group to associate with dynamic BGP neighbors on this interface. The peer-group provides all the parameters needed to complete the establishment of the dynamic session.
Context	network-instance name *string* protocols bgp dynamic-neighbors interface interface-name *string* peer-group *reference*
Tree	peer-group
Reference	network-instance name *string* protocols bgp group group-name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ebgp-default-policy

Description	Enter the ebgp-default-policy context Options for controlling the default policies that apply to EBGP sessions
Context	network-instance name *string* protocols bgp ebgp-default-policy
Tree	ebgp-default-policy
Configurable	True
Platforms	Supported on all platforms

export-reject-all *boolean*

Description	When set to true, all outbound routes towards any EBGP peer to which no explicit export policy is applied are treated as though they were rejected by policy
Context	network-instance name *string* protocols bgp ebgp-default-policy export-reject-all *boolean*
Tree	export-reject-all
Default	true
Configurable	True
Platforms	Supported on all platforms

import-reject-all *boolean*

Description	When set to true, all inbound routes from any EBGP peer to which no explicit import policy is applied are treated as though they were rejected by policy
Context	network-instance name *string* protocols bgp ebgp-default-policy import-reject-all *boolean*
Tree	import-reject-all
Default	true
Configurable	True
Platforms	Supported on all platforms

error-handling

Description	Enter the error-handling context Container with options that control the handling of errors in BGP messages from any peer in this instance

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Context	network-instance name *string* protocols bgp error-handling
Tree	error-handling
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keep-withdrawn-routes

Description	Configure retention of malformed routes that have been treat-as-withdraw. Per RFC 7606 treat-as-withdraw semantics, when an UPDATE message contains a malformed route, the route is treated as if it had been withdrawn. When this container is present, such routes are retained in the peer for troubleshooting and post-mortem analysis instead of being discarded. The retained entries are accessible via state and do not influence route selection or advertisement.
Context	network-instance name *string* protocols bgp error-handling keep-withdrawn-routes
Tree	keep-withdrawn-routes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-entries-per-neighbor *number*

Description	Maximum number of malformed treat-as-withdraw entries retained per neighbor. Once this limit is reached, new arrivals are no longer retained. If the limit is later lowered below the current retained count, the oldest entries are evicted until the count fits within the new limit. An extra entry is created for every update message containing the malformed route.
Context	network-instance name *string* protocols bgp error-handling keep-withdrawn-routes max-entries-per-neighbor *number*

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Tree	max-entries-per-neighbor
Range	1 to 10000
Default	10000
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

failure-detection

Description	Enter the failure-detection context Options related to methods of detecting BGP session failure
Context	network-instance name *string* protocols bgp failure-detection
Tree	failure-detection
Configurable	True
Platforms	Supported on all platforms

enable-bfd *boolean*

Description	The true setting enables Bi-directional Forwarding Detection on BGP sessions belonging to the peer group
Context	network-instance name *string* protocols bgp failure-detection enable-bfd *boolean*

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Tree	enable-bfd
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-failover *boolean*

Description	The true setting causes EBGP and IBGP sessions to drop immediately (and not wait for hold timer expiry) when the local interface that they depend upon for neighbor reachability goes down
Context	network-instance name *string* protocols bgp failure-detection fast-failover *boolean*
Tree	fast-failover
Default	true
Configurable	True
Platforms	Supported on all platforms

graceful-restart

Description	Enter the graceful-restart context Options for controlling the behavior of the router as a graceful restart helper
Context	network-instance name *string* protocols bgp graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable graceful restart helper for all address families
Context	network-instance name *string* protocols bgp graceful-restart admin-state *keyword*
Tree	admin-state

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Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

requested-restart-time *number*

Description	The restart time encoded in this router's GR capability. If the neighbor honors this request then this is the maximum time allowed for this router to re-establish its TCP connection after a restart. If this time is exceeded, the neighbor is expected to flush stale routes that it was maintaining on behalf of this router.
Context	network-instance name *string* protocols bgp graceful-restart requested-restart-time *number*
Tree	requested-restart-time
Range	1 to 3600
Default	300
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-routes-time *number*

Description	The maximum number of seconds that routes received from a helped peer remain stale until they are deleted Routes of AFI/SAFI X received from peer Y are marked stale when peer Y goes down and its previous GR capability included AFI/SAFI X.
Context	network-instance name *string* protocols bgp graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600

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Default	360
Units	seconds
Configurable	True
Platforms	Supported on all platforms

group group-name *string*

Description	Peer group templates
Context	network-instance name *string* protocols bgp group group-name *string*
Tree	group
Configurable	True
Platforms	Supported on all platforms

group-name *string*

Description	The configured name of the peer group
Context	network-instance name *string* protocols bgp group group-name *string*
String Length	1 to 64
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable the peer group Disable will tear down all the BGP sessions in the group, even if they are administratively enabled at the neighbor level.
Context	network-instance name *string* protocols bgp group group-name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

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afi-safi afi-safi-name *identityref*

Description	List of address families supported by the BGP peer group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref*
Tree	afi-safi
Configurable	True
Platforms	Supported on all platforms

afi-safi-name *identityref*

Description	The name of a BGP address family, which translates to a specific AFI value and a specific SAFI value
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref*
Options	• ipv4-unicast Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1) • ipv6-unicast Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1) • l3vpn-ipv4-unicast VPN-IPv4 unicast address family (AFI = 1, SAFI = 128) • l3vpn-ipv6-unicast VPN-IPv6 unicast address family (AFI = 2, SAFI = 128) • ipv4-labeled-unicast Labeled IPv4 unicast routes (AFI 1, SAFI 4) • ipv6-labeled-unicast Labeled IPv6 unicast routes (AFI 2, SAFI 4) • evpn EVPN routes (AFI = 25, SAFI = 70) • ipv4-mvpn L3 MVPN routes (AFI = 1, SAFI = 5) • ipv6-mvpn L3 MVPN routes (AFI = 2, SAFI = 5) • ipv4-flowspec-v1 FlowSpec routes (AFI = 1, SAFI = 133) • ipv6-flowspec-v1 FlowSpec routes (AFI = 2, SAFI = 133)

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- route-target

  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state

  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

add-paths

Description Enter the add-paths context

Configure support for the advertisement and receipt of multiple paths for the AFI/SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths

Tree add-paths

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive *boolean*

Description Enable capability negotiation to receive multiple path advertisements from a single peer for a single NLRI belonging to the AFI/SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths receive *boolean*

Tree receive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send *boolean*

Description Enable capability negotiation to send multiple path advertisements to a single peer for a single NLRI belonging to the AFI/SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths send *boolean*

Tree send

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-all

Description Send all valid paths for a single NLRI to add-paths capable peers, subject to next-hop diversity. A path is advertised if it is valid (next-hop resolvable, not rejected by export policy) and has a unique next-hop relative to better-ranked paths. The number of paths advertised may exceed the platform multipath limit. Intended for use on route reflectors and route servers where maximum path visibility is required.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths send-all

Tree send-all

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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send-max *number*

Description Send the N best paths for a single NLRI, or as many as possible until there are no more valid paths to send.

This ensures the best path is advertised but does not limit the additional paths to being 'used' paths.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths send-max *number*

Tree send-max

Range 1 to 16

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-multipath

Description Send the used paths for a single NLRI, including all paths that are multipaths.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* add-paths send-multipath

Tree send-multipath

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description This leaf indicates whether the AFI-SAFI is enabled for the peer group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* admin-state *keyword*

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Tree admin-state

Options
- enable
- disable

Configurable True

Platforms Supported on all platforms

allow-aigp *boolean*

Description Set to true to allow AIGP attribute to be accepted in routes of the AFI-SAFI sent and received from peers in the group

Set to false to strip the AIGP attribute from routes of the AFI-SAFI sent and received from peers in the group.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* allow-aigp *boolean*

Tree allow-aigp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bmp

Description Enter the bmp context

BMP monitoring configuration

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp

Tree bmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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monitor

Description Enter the monitor context

BMP route monitoring configuration

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp monitor

Tree monitor

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

station name *reference*

Description List of BMP stations monitoring this AFI-SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp monitor station name *reference*

Tree station

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Reference to a configured BMP station

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp monitor station name *reference*

Reference network-instance name *string* protocols bgp bmp station name *string*

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable monitoring for this station

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp monitor station name *reference* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-monitoring-policy *identityref*

Description Override the station-level route monitoring policy for this AFI-SAFI.

If not specified, the station-level route-monitoring-policy is inherited. See PRD Section 5.3.3 for the full inheritance rules: 1. If monitoring-policy is set at the neighbor AFI-SAFI level, use it 2. Else if set at the group AFI-SAFI level, use it 3. Else fall back to the station-level route-monitoring-policy 4. If the station has no route-monitoring-policy, no route monitoring occurs

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* bmp monitor station name *reference* route-monitoring-policy *identityref*

Tree route-monitoring-policy

Options

- pre-policy-rib-in

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Monitor Adj-RIB-In before import policy application

- post-policy-rib-in

  Monitor Adj-RIB-In after import policy application

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-export-policy *keyword*

Description Procesing to apply to BGP routes in the local RIB not matching any of the listed peer export policies

The default depends on context. For IBGP peers the default is `accept`. For EBGP peers the default depends on the setting for `export-reject-all`. Note that default-export-policy does not have any control over maintenance-mode policy results and it also does not apply to imported, non-BGP routes; to advertise imported routes they must be matched and accepted by a peer export policy.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* default-export-policy *keyword*

Tree default-export-policy

Options

- accept

  Accept all non-matching routes

- reject

  Reject all non-matching routes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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default-import-policy *keyword*

Description Procesing to apply to received BGP routes not matching any of the listed peer import policies

The default depends on context. For IBGP peers the default is `accept`. For EBGP peers the default depends on the setting for `import-reject-all`. Note that default-import-policy does not have any control over maintenance-mode policy results.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* default-import-policy *keyword*

Tree default-import-policy

Options

- accept

  Accept all non-matching routes

- reject

  Reject all non-matching routes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn

Description Enter the evpn context

Options related to the EVPN address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn

Tree evpn

Configurable True

Platforms Supported on all platforms

advertise-ipv6-next-hops *boolean*

Description Enables advertisement of EVPN routes with IPv6 next-hops to peers in the peer-group

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If this is set to true and the local-address used towards the peer is an IPv6 address and BGP is supposed to apply next-hop-self then the route is advertised with the IPv6 local-address as the BGP next-hop. If this is set to false, then the EVPN route is advertised with an IPv4 next-hop.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn advertise-ipv6-next-hops *boolean*

Tree advertise-ipv6-next-hops

Configurable True

Platforms Supported on all platforms

default-received-encapsulation *keyword*

Description Indicates the encapsulation considered when the routes are received without BGP encapsulation extended community

Most EVPN routes are usually received with a BGP encapsulation extended community that indicates the encapsulation and therefore how to interpret the value in the received Label fields of the routes. If no encapsulation is received, BGP will validate the route as MPLS or VXLAN or SRv6 depending on how this command is configured.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn default-received-encapsulation *keyword*

Tree default-received-encapsulation

Options

- vxlan
- mpls

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted

Tree prefix-limit-accepted

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms Supported on all platforms

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms Supported on all platforms

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* evpn prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Default 90

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Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

graceful-restart

Description	Enter the graceful-restart context BGP configuration of graceful restart operations applicable to a specific peer group and AFI-SAFI
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-route-retention

Description	Enter the extended-route-retention context Extended route retention configuration and state
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention
Tree	extended-route-retention

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable extended route retention

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-retention-policy *keyword*

Description Action to take for routes received from failed peers that do not match any of the retention policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention default-retention-policy *keyword*

Tree default-retention-policy

Options

- accept

  Accept all non-matching routes
- reject

  Reject all non-matching routes

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-policy *reference*

Description	A list of routing policies that are applied to routes received from failed peers Routes accepted by the policies are preserved as stale. Routes rejected by the policies are not preserved and withdrawn if required
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-policy *reference*
Tree	retention-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

retention-time *number*

Description	Time duration in seconds for which the device will retain stale routes under Extended Route Retention conditions
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-time *number*
Tree	retention-time
Range	1 to 2147483647
Units	seconds

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description	Apply an import policy to received BGP routes
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

ipv4-flowspec-v1

Description	Enter the ipv4-flowspec-v1 context Options related to the ipv4-flowspec-v1 address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1
Tree	ipv4-flowspec-v1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context

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Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-labeled-unicast

Description	Enter the ipv4-labeled-unicast context Options related to the labeled-IPv4-unicast address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast
Tree	ipv4-labeled-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unchanged *boolean*

Description	When set to true, do not change the BGP next-hop towards group peers, even if next-hop-self is normally performed
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-unchanged *boolean*
Tree	next-hop-unchanged
Default	false
Configurable	True
Platforms	Supported on 7250 IXR

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes

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Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received prevent-teardown *boolean*

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Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description	Enter the ipv4-unicast context Options related to the IPv4-unicast address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast
Tree	ipv4-unicast
Configurable	True
Platforms	Supported on all platforms

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True
Platforms	Supported on all platforms

link-bandwidth

Description	Enter the link-bandwidth context
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth
Tree	link-bandwidth
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Description Determines the weight that is internally added to the received PE-CE BGP routes

The configured weight is added to all received BGP PE-CE routes for the purpose of EVPN unequal ECMP. This weight is internal and not added into any link-bandwidth extended community when readvertising the received routes to other ipv4 or ipv6 neighbors.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Tree add-next-hop-count-to-received-bgp-routes

Range 1 to 128

Options

- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-used-paths *boolean*

Description When advertising link-bandwidth to this peer, sum the link bandwidth from all the used multipaths

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth aggregate-used-paths *boolean*

Tree aggregate-used-paths

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-from-interface-speed

Description Enter the auto-from-interface-speed context

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Options for controlling the automatic generation of the link-bandwidth extended community based on underlaying interface speed

Applies only to BGP routes (a) received from single-hop BGP peers and (b) that do not already have a link-bandwidth extended-community that was encoded by the peer in its UPDATE message or added by a BGP import policy of this router.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed

Tree auto-from-interface-speed

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable to add a link-bandwidth extended community to received BGP routes that do not have link-bandwidth extended community

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hold-down-time *number*

Description Suppress increases in the link-bandwidth value by the specified number of seconds

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed hold-down-time *number*

Tree hold-down-time

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transitive *boolean*

Description When set to true, generate link-bandwidth extended community as a transitive type

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed transitive *boolean*

Tree transitive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

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Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	Supported on all platforms

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max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	Supported on all platforms

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct

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Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on all platforms

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv4-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Configurable	True
Platforms	Supported on all platforms

ipv6-flowspec-v1

Description	Enter the ipv6-flowspec-v1 context Options related to the ipv6-flowspec-v1 address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1
Tree	ipv6-flowspec-v1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context

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Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-labeled-unicast

Description	Enter the ipv6-labeled-unicast context Options related to the labeled IPv6-unicast address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast
Tree	ipv6-labeled-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unchanged *boolean*

Description	When set to true, do not change the BGP next-hop towards group peers, even if next-hop-self is normally performed
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-unchanged *boolean*
Tree	next-hop-unchanged
Default	false

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Configurable	True
Platforms	Supported on 7250 IXR

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

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Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Default 90

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description Enter the ipv6-unicast context

Options related to the IPv6-unicast address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast

Tree ipv6-unicast

Configurable True

Platforms Supported on all platforms

link-bandwidth

Description Enter the link-bandwidth context

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth

Tree link-bandwidth

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Description Determines the weight that is internally added to the received PE-CE BGP routes

The configured weight is added to all received BGP PE-CE routes for the purpose of EVPN unequal ECMP. This weight is internal and not added into any link-bandwidth extended community when readvertising the received routes to other ipv4 or ipv6 neighbors.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Tree add-next-hop-count-to-received-bgp-routes

Range 1 to 128

Options

- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-used-paths *boolean*

Description When advertising link-bandwidth to this peer, sum the link bandwidth from all the used multipaths

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth aggregate-used-paths *boolean*

Tree aggregate-used-paths

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-from-interface-speed

Description Enter the auto-from-interface-speed context

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Options for controlling the automatic generation of the link-bandwidth extended community based on underlaying interface speed

Applies only to BGP routes (a) received from single-hop BGP peers and (b) that do not already have a link-bandwidth extended-community that was encoded by the peer in its UPDATE message or added by a BGP import policy of this router.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed

Tree auto-from-interface-speed

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable to add a link-bandwidth extended community to received BGP routes that do not have link-bandwidth extended community

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hold-down-time *number*

Description Suppress increases in the link-bandwidth value by the specified number of seconds

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed hold-down-time *number*

Tree hold-down-time

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transitive *boolean*

Description When set to true, generate link-bandwidth extended community as a transitive type

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed transitive *boolean*

Tree transitive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

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Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms Supported on all platforms

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max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	Supported on all platforms

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct

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Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on all platforms

l3vpn-ipv4-unicast

Description	Enter the l3vpn-ipv4-unicast context Options related to the VPN-IPv4 unicast address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast
Tree	l3vpn-ipv4-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

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Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops

When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast receive-ipv6-next-hops *boolean*

Tree receive-ipv6-next-hops

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv6-unicast

Description Enter the l3vpn-ipv6-unicast context

Options related to the VPN-IPv6 unicast address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast

Tree l3vpn-ipv6-unicast

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted

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Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

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Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-state

Description Enter the link-state context

Options related to the link-state address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state

Tree link-state

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted max-received-routes *number*

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Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

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Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* link-state prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Default 90

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multipath

Description Enter the multipath context

Options related to BGP multipath

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath

Tree multipath

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ebgp

Description Enter the ebgp context

Multipath configuration options that apply when the best path for the prefix was received from an EBGP peer within the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ebgp

Tree ebgp

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weighted-ecmp

Description Enter the weighted-ecmp context

Weighted-ecmp for the AFI/SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ebgp weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set to enable, weighted ECMP is programmed for all routes of the AFI-SAFI for which the best path was received an EBGP peer within the group

Irrespective of this setting, weighted ECMP is only possible if all the multipath-eligible routes have link-bandwidth extended communities

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Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ebgp weighted-ecmp admin-state *keyword*

Tree admin-state

Options
- enable
- disable

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ibgp

Description Enter the ibgp context

Multipath configuration options that apply when the best path for the prefix was received from an IBGP peer within the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ibgp

Tree ibgp

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weighted-ecmp

Description Enter the weighted-ecmp context

Weighted-ecmp for the AFI/SAFI

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ibgp weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description

When set to enable, weighted ECMP is programmed for all routes of the AFI-SAFI for which the best path was received an IBGP peer within the group

Irrespective of this setting, weighted ECMP is only possible if all the multipath-eligible routes have link-bandwidth extended communities

Context

network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* multipath ibgp weighted-ecmp admin-state *keyword*

Tree

admin-state

Options

- enable
- disable

Configurable

True

Platforms

7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation

Description

Enter the origin-validation context

Origin validation configuration for this peer-group AFI-SAFI

Context

network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation

Tree

origin-validation

Configurable

True

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description

Enable or disable origin validation for this peer-group AFI-SAFI

When enabled, routes received from neighbors explicitly configured with origin validation enabled for this address family are validated against the local ROA database.

Enabling at the peer-group level does not automatically enable origin validation for member neighbors. Each neighbor requires explicit admin-state enable at the neighbor AFI-SAFI level. This is consistent with SR OS behavior.

Defaults to disable. Origin validation is explicitly opt-in per scope per address family.

Context

network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation admin-state *keyword*

Tree

admin-state

Default

disable

Options

- enable
- disable

Configurable

True

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description

Enter the statistics context

Origin validation prefix counts for this scope. Counts reflect routes whose origin-validation-state has been determined by lookup against the local ROA database. Routes with origin validation disabled are not counted.

Context

network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation statistics

Tree

statistics

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-prefixes *number*

Description Number of prefixes with origin-validation-state invalid

The route prefix matched a ROA entry but either the origin AS did not match or the prefix-length exceeded the ROA max-prefix-length.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation statistics invalid-prefixes *number*

Tree invalid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-updated *string*

Description Timestamp of the most recent change to any origin-validation-state counter in this statistics scope

Updated whenever a prefix transitions between valid, invalid, or not-found states. Not present if no origin validation has been performed in this scope since the last statistics reset.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation statistics last-updated *string*

Tree last-updated

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-found-prefixes *number*

Description Number of prefixes with origin-validation-state not-found

No matching ROA entry exists for the route prefix in the local ROA database.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation statistics not-found-prefixes *number*

Tree not-found-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-prefixes *number*

Description Number of prefixes with origin-validation-state valid

The route prefix matched a ROA entry with a matching origin AS and acceptable prefix-length.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* origin-validation statistics valid-prefixes *number*

Tree valid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target

Description Enter the route-target context

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Options related to the RT constraint address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target

Tree route-target

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-default-route *boolean*

Description	When true the router advertises a synthetically generated default RTC route to each peer in the group

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Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* route-target send-default-route *boolean*

Tree send-default-route

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-community-type *keyword*

Description Specify the types of community that should be sent to all peers in the group

If value none is included in the leaf-list, then other values are ignored.

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* send-community-type *keyword*

Tree send-community-type

Options

- none

  Send no communities
- standard

  Send standard communities
- extended

  Send extended communities
- large

  Send large communities

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srte-policy-ipv4

Description Enter the srte-policy-ipv4 context

Options related to the segment-routing TE policy for IPv4 endpoints address family

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4

Tree srte-policy-ipv4

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Default 4294967295

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

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Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy-ipv6

Description	Enter the srte-policy-ipv6 context Options related to the segment-routing TE policy for IPv6 endpoints address family
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6
Tree	srte-policy-ipv6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from each peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

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Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from each peer in the group

Context network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received

Tree prefix-limit-received

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from each peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Default	4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp group group-name *string* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Default	90
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-path-options

Description	Enter the as-path-options context Options for handling the AS_PATH in received BGP routes
Context	network-instance name *string* protocols bgp group group-name *string* as-path-options
Tree	as-path-options
Configurable	True
Platforms	Supported on all platforms

allow-own-as *number*

Description	The maximum number of times the global AS number or a local AS number of the BGP instance can appear in any received AS_PATH before it is considered a loop and considered invalid When this value is changed the new value applies only to the routes received after the change is committed.
Context	network-instance name *string* protocols bgp group group-name *string* as-path-options allow-own-as *number*
Tree	allow-own-as
Configurable	True
Platforms	Supported on all platforms

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remove-private-as

Description	Container with options for removing private AS numbers (2-byte and 4-byte) from the advertised AS path towards all peers
Context	network-instance name *string* protocols bgp group group-name *string* as-path-options remove-private-as
Tree	remove-private-as
Configurable	True
Platforms	Supported on all platforms

ignore-peer-as *boolean*

Description	If set to true then do not delete or replace a private AS number that is the same as the peer AS number
Context	network-instance name *string* protocols bgp group group-name *string* as-path-options remove-private-as ignore-peer-as *boolean*
Tree	ignore-peer-as
Default	false
Configurable	True
Platforms	Supported on all platforms

leading-only *boolean*

Description	If set to true then only delete or replace private AS numbers that appear before the first occurrence of a non-private ASN in the sequence of most recent ASNs in the AS path
Context	network-instance name *string* protocols bgp group group-name *string* as-path-options remove-private-as leading-only *boolean*
Tree	leading-only
Default	false
Configurable	True
Platforms	Supported on all platforms

mode *keyword*

Description	The method by which private AS numbers are removed from the advertised AS_PATH attribute

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Context network-instance name *string* protocols bgp group group-name *string* as-path-options remove-private-as mode *keyword*

Tree mode

Options

- disabled

  Do not strip or replace any private AS numbers

- delete

  Delete private AS numbers, shortening the AS path

- replace

  Replace private AS numbers with the local AS number used towards the peer, maintaining the AS path length

Configurable True

Platforms Supported on all platforms

replace-peer-as *boolean*

Description If set to true then replace every occurrence of the peer AS number that is present in the advertised AS path with the local AS number used towards the peer

Context network-instance name *string* protocols bgp group group-name *string* as-path-options replace-peer-as *boolean*

Tree replace-peer-as

Configurable True

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container with authentication options that apply to all peers in this peer-group

Context network-instance name *string* protocols bgp group group-name *string* authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

keychain *reference*

Description Reference to a keychain. The keychain type must be tcp-md5.

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Context	network-instance name *string* protocols bgp group group-name *string* authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	Supported on all platforms

password *string*

Description	Configures an MD5 authentication password for use with neighboring devices.
Context	network-instance name *string* protocols bgp group group-name *string* authentication password *string*
Tree	password
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-malformed-updates

Description	Execute the clear-malformed-updates action Clear retained malformed treat-as-withdraw BGP UPDATE entries
Context	network-instance name *string* protocols bgp group group-name *string* clear-malformed-updates
Tree	clear-malformed-updates
Configurable	True
Note	This is an action command
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description A user provided description string for the peer group

Context network-instance name *string* protocols bgp group group-name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms Supported on all platforms

error-handling

Description Enter the error-handling context

Container with options that control the handling of errors in BGP messages from any peer in a group

Context network-instance name *string* protocols bgp group group-name *string* error-handling

Tree error-handling

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keep-withdrawn-routes

Description Configure retention of malformed routes that have been treat-as-withdraw.

Per RFC 7606 treat-as-withdraw semantics, when an UPDATE message contains a malformed route, the route is treated as if it had been withdrawn. When this container is present, such routes are retained in the peer for troubleshooting and post-mortem analysis instead of being discarded.

The retained entries are accessible via state and do not influence route selection or advertisement.

Context network-instance name *string* protocols bgp group group-name *string* error-handling keep-withdrawn-routes

Tree keep-withdrawn-routes

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-entries-per-neighbor *number*

Description	Maximum number of malformed treat-as-withdraw entries retained per neighbor. Once this limit is reached, new arrivals are no longer retained. If the limit is later lowered below the current retained count, the oldest entries are evicted until the count fits within the new limit. An extra entry is created for every update message containing the malformed route.
Context	network-instance name *string* protocols bgp group group-name *string* error-handling keep-withdrawn-routes max-entries-per-neighbor *number*
Tree	max-entries-per-neighbor
Range	1 to 10000
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp group group-name *string* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

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failure-detection

Description Enter the failure-detection context

Options related to methods of detecting BGP session failure

Context network-instance name *string* protocols bgp group group-name *string* failure-detection

Tree failure-detection

Configurable True

Platforms Supported on all platforms

enable-bfd *boolean*

Description The true setting enables Bi-directional Forwarding Detection on BGP sessions belonging to the peer group

Context network-instance name *string* protocols bgp group group-name *string* failure-detection enable-bfd *boolean*

Tree enable-bfd

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-failover *boolean*

Description The true setting causes EBGP and IBGP sessions in the peer group to drop immediately (and not wait for hold timer expiry) when the local interface that they depend upon for neighbor reachability goes down

Context network-instance name *string* protocols bgp group group-name *string* failure-detection fast-failover *boolean*

Tree fast-failover

Configurable True

Platforms Supported on all platforms

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graceful-restart

Description Enter the graceful-restart context

Options related to router behavior as a graceful restart helper

Context network-instance name *string* protocols bgp group group-name *string* graceful-restart

Tree graceful-restart

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Administratively enable or disable graceful restart helper for all address families

Context network-instance name *string* protocols bgp group group-name *string* graceful-restart admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

requested-restart-time *number*

Description The restart time encoded in this router's GR capability.

If the neighbor honors this request then this is the maximum time allowed for this router to re-establish its TCP connection after a restart. If this time is exceeded, the neighbor is expected to flush stale routes that it was maintaining on behalf of this router.

Context network-instance name *string* protocols bgp group group-name *string* graceful-restart requested-restart-time *number*

Tree requested-restart-time

Range 1 to 3600

Default 300

Units seconds

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-routes-time *number*

Description	The maximum number of seconds that routes received from a neighbor that is being helped remain stale until they are deleted. Routes of AFI/SAFI X received from peer Y are marked stale when peer Y goes down and its previous GR capability included AFI/SAFI X.
Context	network-instance name *string* protocols bgp group group-name *string* graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

import-policy *reference*

Description	Apply an import policy to received BGP routes
Context	network-instance name *string* protocols bgp group group-name *string* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

local-as

Description	Enter the local-as context Options related to the local autonomous-system number advertised by this router to its peers

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Context	network-instance name *string* protocols bgp group group-name *string* local-as
Tree	local-as
Configurable	True
Platforms	Supported on all platforms

as-number *number*

Description	The local autonomous system number used to override the global ASN on this group of BGP sessions Sets the ASN value that this router sends in its OPEN message towards its peer in the group.
Context	network-instance name *string* protocols bgp group group-name *string* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

prepend-global-as *boolean*

Description	When set to true, the global ASN value is prepended to the AS path in outbound routes towards each BGP peer in the group If a session is EBGP (peer-as is not equal to the local-as) then the local-as is prepended as the final step, so that the local-as is the first element in the AS_PATH received by the peer.
Context	network-instance name *string* protocols bgp group group-name *string* local-as prepend-global-as *boolean*
Tree	prepend-global-as
Configurable	True
Platforms	Supported on all platforms

prepend-local-as *boolean*

Description	When set to true, the local AS value is prepended to the AS path of inbound routes from each EBGP peer belonging to the group
Context	network-instance name *string* protocols bgp group group-name *string* local-as prepend-local-as *boolean*

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Tree	prepend-local-as
Configurable	True
Platforms	Supported on all platforms

local-preference *number*

Description	The value of the local-preference attribute that is added to received routes from EBGP peers in the group It is also used to encode the local preference attribute for locally generated BGP routes.
Context	network-instance name *string* protocols bgp group group-name *string* local-preference *number*
Tree	local-preference
Configurable	True
Platforms	Supported on all platforms

maintenance-group *string*

Description	State field to display the maintenance group to which this group belongs to.
Context	network-instance name *string* protocols bgp group group-name *string* maintenance-group *string*
Tree	maintenance-group
Configurable	False
Platforms	Supported on all platforms

multihop

Description	Enter the multihop context Configuration parameters specifying the multihop behaviour for IBGP and EBGP peers in the peer group.
Context	network-instance name *string* protocols bgp group group-name *string* multihop
Tree	multihop
Configurable	True
Platforms	Supported on all platforms

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admin-state *keyword*

Description When enabled, IBGP and EBGP peers in the group are allowed to be indirectly connected by up to N hops, where N is controlled by the maximum-hops parameter. When disabled, only IBGP peers within the peer group support multihop.

This can be overriden on a per neighbor basis. It is inherited by neighbors in the peer-group only if maximum-hops is also specified.

By default this is disabled.

Context network-instance name *string* protocols bgp group group-name *string* multihop admin-state *keyword*

Tree admin-state

Options
- enable
- disable

Configurable True

Platforms Supported on all platforms

maximum-hops *number*

Description This sets the maximum number of routing hops towards each peer. It determines the IP TTL value in originated BGP TCP/IP packets. By default the TTL is set to 1 towards EBGP peers and 64 towards IBGP peers. This leaf sets a new IP TTL to use towards both EBGP and IBGP peers in the peer group.

This can be overriden on a per neighbor basis. It is inherited by neighbors in the peer-group only if admin-state is also specified.

Context network-instance name *string* protocols bgp group group-name *string* multihop maximum-hops *number*

Tree maximum-hops

Range 1 to 255

Configurable True

Platforms Supported on all platforms

next-hop-self *boolean*

Description When set to true, the next-hop in all IPv4-unicast, IPv6-unicast, EVPN, VPN-IPv4 and VPN-IPv6 BGP routes advertised to all IBGP peers in the peer-group is set equal to the local-address used on each session (or to the router ID if the NLRI is IPv6 and there is no IPv6 local address to use). This

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is independent of the route origin (EBGP, IBGP-client, IBGP-non-client or redistributed direct/static/aggregate route).

When set to false, normal BGP rules from RFC 4271 apply.

Context network-instance name *string* protocols bgp group group-name *string* next-hop-self *boolean*

Tree next-hop-self

Default false

Configurable True

Platforms Supported on all platforms

optional-attributes

Description Enter the optional-attributes context

Context network-instance name *string* protocols bgp group group-name *string* optional-attributes

Tree optional-attributes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-prefix-sid *boolean*

Description Remove the prefix SID optional transitive attribute in all received and sent routes to this peer, or group of peers

Context network-instance name *string* protocols bgp group group-name *string* optional-attributes block-prefix-sid *boolean*

Tree block-prefix-sid

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-as *number*

Description The autonomous system number expected from each peer in the group

A configured session with a peer does not come up if this value does not match the AS value reported by the peer in its OPEN message.

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Context	network-instance name *string* protocols bgp group group-name *string* peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

route-flap-damping *boolean*

Description	Enable/disable route flap damping procedures for routes received from EBGP peers in the peer group This has no effect on routes received from IBGP peers within the peer group.
Context	network-instance name *string* protocols bgp group group-name *string* route-flap-damping *boolean*
Tree	route-flap-damping
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-reflector

Description	Enter the route-reflector context Container with route reflection configuration options.
Context	network-instance name *string* protocols bgp group group-name *string* route-reflector
Tree	route-reflector
Configurable	True
Platforms	Supported on all platforms

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client *boolean*

Description	When this is set to true all configured and dynamic BGP sessions that belong to the peer-group are considered RR clients.
Context	network-instance name *string* protocols bgp group group-name *string* route-reflector client *boolean*
Tree	client
Configurable	True
Platforms	Supported on all platforms

cluster-id *(number | dotted-quad)*

Description	The cluster-id to insert into the CLUSTER_LIST attribute when reflecting routes received by or sent to each client in the peer-group. The default is inherited from instance level configuration.
Context	network-instance name *string* protocols bgp group group-name *string* route-reflector cluster-id *(number | dotted-quad)*
Tree	cluster-id
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

send-default-route

Description	Enter the send-default-route context Options for controlling the generation of default routes towards group peers
Context	network-instance name *string* protocols bgp group group-name *string* send-default-route
Tree	send-default-route
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Policy used to modify the BGP attributes of the generated default route
Context	network-instance name *string* protocols bgp group group-name *string* send-default-route export-policy *reference*
Tree	export-policy

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Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

ipv4-unicast *boolean*

Description	Enables the sending of a synthetically generated default IPv4 route [0/0] to each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* send-default-route ipv4-unicast *boolean*
Tree	ipv4-unicast
Default	false
Configurable	True
Platforms	Supported on all platforms

ipv6-unicast *boolean*

Description	Enables the sending of a synthetically generated default IPv6 route [::/0] to each peer in the group
Context	network-instance name *string* protocols bgp group group-name *string* send-default-route ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	false
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Container for BGP statistics.
Context	network-instance name *string* protocols bgp group group-name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

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disabled-peers *number*

Description	The number of configured BGP peers associated with the peer-group that are administratively disabled
Context	network-instance name *string* protocols bgp group group-name *string* statistics disabled-peers *number*
Tree	disabled-peers
Configurable	False
Platforms	Supported on all platforms

dynamic-peers *number*

Description	The number of dynamic BGP peers associated with the peer-group that are currently in the established state, counting sessions resulting from accepted incoming TCP connections and outgoing TCP connections triggered by LLDP auto-discovery
Context	network-instance name *string* protocols bgp group group-name *string* statistics dynamic-peers *number*
Tree	dynamic-peers
Configurable	False
Platforms	Supported on all platforms

path-memory *number*

Description	The total number of bytes required to store the path attribute objects used by received BGP routes associated with the peer-group
Context	network-instance name *string* protocols bgp group group-name *string* statistics path-memory *number*
Tree	path-memory
Default	0
Configurable	False
Platforms	Supported on all platforms

total-active-routes *number*

Description	The total number of received BGP routes that are active (installed for forwarding) and associated with the peer-group, summed across all address families

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Context	network-instance name *string* protocols bgp group group-name *string* statistics total-active-routes *number*
Tree	total-active-routes
Default	0
Configurable	False
Platforms	Supported on all platforms

total-paths *number*

Description	The total number of path attribute objects used by received BGP routes associated with the peer-group
Context	network-instance name *string* protocols bgp group group-name *string* statistics total-paths *number*
Tree	total-paths
Default	0
Configurable	False
Platforms	Supported on all platforms

total-peers *number*

Description	The total number of configured BGP peers associated with the peer-group
Context	network-instance name *string* protocols bgp group group-name *string* statistics total-peers *number*
Tree	total-peers
Configurable	False
Platforms	Supported on all platforms

total-prefixes *number*

Description	The total number of unique NLRI contained in all received BGP routes associated with the BGP instance or the peer-group.
Context	network-instance name *string* protocols bgp group group-name *string* statistics total-prefixes *number*
Tree	total-prefixes
Configurable	False
Platforms	Supported on all platforms

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total-received-routes *number*

Description	The total number of received BGP routes associated with the peer-group, summed across all address families
Context	network-instance name *string* protocols bgp group group-name *string* statistics total-received-routes *number*
Tree	total-received-routes
Default	0
Configurable	False
Platforms	Supported on all platforms

up-peers *number*

Description	The number of configured BGP peers associated with the peer-group that are currently in the established state
Context	network-instance name *string* protocols bgp group group-name *string* statistics up-peers *number*
Tree	up-peers
Configurable	False
Platforms	Supported on all platforms

timers

Description	Enter the timers context
Context	network-instance name *string* protocols bgp group group-name *string* timers
Tree	timers
Configurable	True
Platforms	Supported on all platforms

connect-retry *number*

Description	The time interval in seconds between successive attempts to establish a session with a peer
Context	network-instance name *string* protocols bgp group group-name *string* timers connect-retry *number*
Tree	connect-retry
Range	1 to 65535

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Default	120
Units	seconds
Configurable	True
Platforms	Supported on all platforms

hold-time *number*

Description	The hold-time interval in seconds that the router proposes to the peer in its OPEN message The actual in-use hold-time is negotiated to the lowest value proposed by the two peers. A negotiated value of 0 suppresses the sending of keepalives by both peers.
Context	network-instance name *string* protocols bgp group group-name *string* timers hold-time *number*
Tree	hold-time
Range	0 | 3 to 65535
Default	90
Units	seconds
Configurable	True
Platforms	Supported on all platforms

keepalive-interval *number*

Description	The interval in seconds between successive keepalive messages sent to the peer The period between one keepalive message and the next is the minimum of this configured value and 1/3 of the negotiated hold-time duration. A value of 0 suppresses the sending of keepalives to the peer.
Context	network-instance name *string* protocols bgp group group-name *string* timers keepalive-interval *number*
Tree	keepalive-interval
Range	0 to 21845
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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minimum-advertisement-interval *number*

Description	The value assigned to the MinRouteAdvertisementIntervalTimer of RFC 4271, for both EBGP and IBGP sessions Each session runs its own independent timer and the timer affects both route advertisements and route withdrawals, regardless of address family. For route withdrawals only, this timer is bypassed if rapid-withdrawal is set to true.
Context	network-instance name *string* protocols bgp group group-name *string* timers minimum-advertisement-interval *number*
Tree	minimum-advertisement-interval
Range	1 to 255
Default	5
Units	seconds
Configurable	True
Platforms	Supported on all platforms

prefix-limit-restart-timer *(keyword | number)*

Description	The time interval in seconds to wait until re-establishing the BGP session automatically after exceeding any prefix limit (of any address family) If set to forever, the session is not re-established automatically; it can only be re-established by action of a clear command. This leaf only applies if prevent-teardown is false.
Context	network-instance name *string* protocols bgp group group-name *string* timers prefix-limit-restart-timer *(keyword | number)*
Tree	prefix-limit-restart-timer
Default	0
Options	• forever
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace-options

Description Enter the trace-options context

Debug traceoptions for BGP

Context network-instance name *string* protocols bgp group group-name *string* trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

flag name *keyword*

Description Tracing parameters

Context network-instance name *string* protocols bgp group group-name *string* trace-options flag name *keyword*

Tree flag

Configurable True

Platforms Supported on all platforms

name *keyword*

Description Enter the name context

Context network-instance name *string* protocols bgp group group-name *string* trace-options flag name *keyword*

Options

- events

  Trace all BGP events.
- packets

  Trace all BGP protocol packets.
- open

  Trace BGP open packets.
- keepalive

  Trace BGP keepalive packets.
- graceful-restart

  Trace Graceful Restart events.
- timers

  Trace routing protocol timer processing.
- route

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Trace BGP route table manager.

- notification

  Trace Bgp notification.

- socket

  Trace socket info.

- update

  Trace update info.

Configurable True

Platforms Supported on all platforms

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols bgp group group-name *string* trace-options flag name *keyword* modifier *keyword*

Tree modifier

Options

- detail

  To enable detailed tracing. Includes both received and sent packets.

- receive

  To enable tracing for the packets which are received.

- send

  To enable tracing for the sent packets.

Configurable True

Platforms Supported on all platforms

transport

Description Enter the transport context

Context network-instance name *string* protocols bgp group group-name *string* transport

Tree transport

Configurable True

Platforms Supported on all platforms

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local-address *(ipv4-address | ipv6-address | subinterface-all)*

Description	The local TCP endpoint of used for all BGP sessions in the group This also the source address for next-hop-self, if it applies. The local-address can be specified as an IP address that is resolvable to a local interface. This address must be the primary address of an interface, otherwise the session will not come up.
Context	network-instance name *string* protocols bgp group group-name *string* transport local-address *(ipv4-address | ipv6-address | subinterface-all)*
Tree	local-address
String Length	5 to 27
Configurable	True
Platforms	Supported on all platforms

mtu-discovery *boolean*

Description	Turns path mtu discovery for BGP TCP sessions on (true) or off (false)
Context	network-instance name *string* protocols bgp group group-name *string* transport mtu-discovery *boolean*
Tree	mtu-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

passive-mode *boolean*

Description	The true setting causes BGP to wait for the peer to initiate the TCP connection The false setting causes BGP to initiate a TCP connection whenever the BGP session is started or restarted.
Context	network-instance name *string* protocols bgp group group-name *string* transport passive-mode *boolean*
Tree	passive-mode
Default	false

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Configurable	True
Platforms	Supported on all platforms

tcp-mss *number*

Description	The maximum segment size of BGP TCP packets The actual value used in the transmit direction towards a particular peer should be checked at the neighbor level.
Context	network-instance name *string* protocols bgp group group-name *string* transport tcp-mss *number*
Tree	tcp-mss
Range	536 to 9446
Units	bytes
Configurable	True
Platforms	Supported on all platforms

under-maintenance *boolean*

Description	Indicates if this BGP group is in maintenance mode
Context	network-instance name *string* protocols bgp group group-name *string* under-maintenance *boolean*
Tree	under-maintenance
Configurable	False
Platforms	Supported on all platforms

import-policy *reference*

Description	Apply an import policy to received BGP routes
Context	network-instance name *string* protocols bgp import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

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instance-name *string*

Description	The name of the BGP instance (optional)
Context	network-instance name *string* protocols bgp instance-name *string*
Tree	instance-name
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-preference *number*

Description	The value of the local-preference attribute that is added to received routes from EBGP peers It is also used to encode the local preference attribute for locally generated BGP routes.
Context	network-instance name *string* protocols bgp local-preference *number*
Tree	local-preference
Default	100
Configurable	True
Platforms	Supported on all platforms

maintenance-group *string*

Description	State field to display the maintenance group to which this bgp instance belongs to.
Context	network-instance name *string* protocols bgp maintenance-group *string*
Tree	maintenance-group
Configurable	False
Platforms	Supported on all platforms

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max-ecmp-hash-buckets-per-next-hop-group *number*

Description	Specifies the maximum number of ECMP hash buckets per next-hop-group Weighted ECMP weights are normalized based on this number of hash buckets.
Context	network-instance name *string* protocols bgp max-ecmp-hash-buckets-per-next-hop-group *number*
Tree	max-ecmp-hash-buckets-per-next-hop-group
Range	1 to 256
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	Create a configured BGP session
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	The transport address of the BGP peer The peer-address must be a valid IPv4 unicast address, IPv6 global unicast address or IPv6 link-local address. An IPv6 link-local address requires the interface scope to be identified, using a format such as fe80::1234%ethernet-1/1.1
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Configurable	True
Platforms	Supported on all platforms

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admin-state *keyword*

Description Administratively enable or disable the peer

Disable will tear down the BGP session (return it to IDLE state).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

advertised-capabilities *keyword*

Description List of BGP capabilities advertised by the local routing device to the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* advertised-capabilities *keyword*

Tree advertised-capabilities

Options

- MP_BGP
- ROUTE_REFRESH
- EXT_NH_ENCODING
- GRACEFUL_RESTART
- 4-OCTET_ASN
- ORF_SEND_EXCOMM
- ORF_RECEIVE_EXCOMM
- ADD_PATH

Configurable False

Platforms Supported on all platforms

afi-safi afi-safi-name *identityref*

Description List of address families supported by the BGP neighbor

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref*

Tree afi-safi

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Configurable True

Platforms Supported on all platforms

afi-safi-name *identityref*

Description The name of a BGP address family, which translates to a specific AFI value and a specific SAFI value

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref*

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast

  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast

  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn

  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn

  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn

  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1

  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1

  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target

  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)

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- link-state

  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

active-routes *number*

Description The number of routes belonging to this AFI/SAFI received from the peer that are installed and used, being best routes

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* active-routes *number*

Tree active-routes

Configurable False

Platforms Supported on all platforms

add-paths

Description Enter the add-paths context

Configure support for the advertisement and receipt of multiple paths for the AFI/SAFI

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths

Tree add-paths

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive *boolean*

Description Enable capability negotiation to receive multiple path advertisements from a single peer for a single NLRI belonging to the AFI/SAFI

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths receive *boolean*

Tree receive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send *boolean*

Description Enable capability negotiation to send multiple path advertisements to a single peer for a single NLRI belonging to the AFI/SAFI

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths send *boolean*

Tree send

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-all

Description Send all valid paths for a single NLRI to add-paths capable peers, subject to next-hop diversity. A path is advertised if it is valid (next-hop resolvable, not rejected by export policy) and has a unique next-hop relative to better-ranked paths. The number of paths advertised may exceed the platform multipath limit. Intended for use on route reflectors and route servers where maximum path visibility is required.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths send-all

Tree send-all

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-max *number*

Description Send the N best paths for a single NLRI, or as many as possible until there are no more valid paths to send.

This ensures the best path is advertised but does not limit the additional paths to being 'used' paths.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths send-max *number*

Tree send-max

Range 1 to 16

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-multipath

Description Send the used paths for a single NLRI, including all paths that are multipaths.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* add-paths send-multipath

Tree send-multipath

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description This leaf indicates whether support for the AFI-SAFI is enabled/advertised to the neighbor

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

allow-aigp *boolean*

Description Set to true to allow AIGP attribute to be accepted in routes of the AFI-SAFI sent and received from the peer

Set to false to strip the AIGP attribute from routes of the AFI-SAFI sent and received from the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* allow-aigp *boolean*

Tree allow-aigp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bmp

Description Enter the bmp context

BMP monitoring configuration

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp

Tree bmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

monitor

Description Enter the monitor context

BMP route monitoring configuration

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor

Tree monitor

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-monitoring-messages-sent *number*

Description Number of route monitoring messages sent for this AFI-SAFI

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor route-monitoring-messages-sent *number*
Tree	route-monitoring-messages-sent
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

station name *reference*

Description	List of BMP stations monitoring this AFI-SAFI
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor station name *reference*
Tree	station
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	Reference to a configured BMP station
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor station name *reference*
Reference	network-instance name *string* protocols bgp bmp station name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable monitoring for this station

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor station name *reference* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-monitoring-policy *identityref*

Description Override the station-level route monitoring policy for this AFI-SAFI.

If not specified, the station-level route-monitoring-policy is inherited. See PRD Section 5.3.3 for the full inheritance rules: 1. If monitoring-policy is set at the neighbor AFI-SAFI level, use it 2. Else if set at the group AFI-SAFI level, use it 3. Else fall back to the station-level route-monitoring-policy 4. If the station has no route-monitoring-policy, no route monitoring occurs

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* bmp monitor station name *reference* route-monitoring-policy *identityref*

Tree route-monitoring-policy

Options

- pre-policy-rib-in

  Monitor Adj-RIB-In before import policy application
- post-policy-rib-in

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Monitor Adj-RIB-In after import policy application

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-export-policy *keyword*

Description Procesing to apply to BGP routes in the local RIB not matching any of the listed peer export policies

The default depends on context. For IBGP peers the default is `accept`. For EBGP peers the default depends on the setting for `export-reject-all`. Note that default-export-policy does not have any control over maintenance-mode policy results and it also does not apply to imported, non-BGP routes; to advertise imported routes they must be matched and accepted by a peer export policy.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* default-export-policy *keyword*

Tree default-export-policy

Options

- accept

  Accept all non-matching routes

- reject

  Reject all non-matching routes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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default-import-policy *keyword*

Description Procesing to apply to received BGP routes not matching any of the listed peer import policies

The default depends on context. For IBGP peers the default is `accept`. For EBGP peers the default depends on the setting for `import-reject-all`. Note that default-import-policy does not have any control over maintenance-mode policy results.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* default-import-policy *keyword*

Tree default-import-policy

Options

- accept

  Accept all non-matching routes

- reject

  Reject all non-matching routes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn

Description Enter the evpn context

Options related to the EVPN address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn

Tree evpn

Configurable True

Platforms Supported on all platforms

advertise-ipv6-next-hops *boolean*

Description Enables advertisement of EVPN routes with IPv6 next-hops to peers

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If this is set to true and the local-address used towards the peer is an IPv6 address and BGP is supposed to apply next-hop-self then the route is advertised with the IPv6 local-address as the BGP next-hop. If this is set to false, then the EVPN route is advertised with an IPv4 next-hop.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn advertise-ipv6-next-hops *boolean*

Tree advertise-ipv6-next-hops

Configurable True

Platforms Supported on all platforms

default-received-encapsulation *keyword*

Description Indicates the encapsulation considered when the routes are received without BGP encapsulation extended community

Most EVPN routes are usually received with a BGP encapsulation extended community that indicates the encapsulation and therefore how to interpret the value in the received Label fields of the routes. If no encapsulation is received, BGP will validate the route as MPLS or VXLAN or SRv6 depending on how this command is configured.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn default-received-encapsulation *keyword*

Tree default-received-encapsulation

Options

- vxlan
- mpls

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted prefix-limit-exceeded *boolean*

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Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	Supported on all platforms

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max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	Supported on all platforms

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* evpn prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	Supported on all platforms

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export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

graceful-restart

Description	Enter the graceful-restart context BGP configuration of graceful restart operations applicable to a specific peer and AFI-SAFI
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-route-retention

Description	Enter the extended-route-retention context Extended route retention configuration and state
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention
Tree	extended-route-retention

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable extended route retention

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-retention-policy *keyword*

Description Action to take for routes received from failed peers that do not match any of the retention policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention default-retention-policy *keyword*

Tree default-retention-policy

Options

- accept

  Accept all non-matching routes
- reject

  Reject all non-matching routes

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-retention-active *boolean*

Description	Indicates whether Extended Route Retention is currently active for the BGP session
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention extended-retention-active *boolean*
Tree	extended-retention-active
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining-retention-time *number*

Description	The time remaining, in seconds, before the stale routes are purged When ExRR is not active, remaining-retention-time reports the configured retention-time. When ExRR is active remaining-retention-time counts down from the configured retention-time.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention remaining-retention-time *number*
Tree	remaining-retention-time
Units	seconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-policy *reference*

Description A list of routing policies that are applied to routes received from failed peers

Routes accepted by the policies are preserved as stale. Routes rejected by the policies are not preserved and withdrawn if required

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-policy *reference*

Tree retention-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

retention-time *number*

Description Time duration in seconds for which the device will retain stale routes under Extended Route Retention conditions

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* graceful-restart extended-route-retention retention-time *number*

Tree retention-time

Range 1 to 2147483647

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description Apply an import policy to received BGP routes

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* import-policy *reference*

Tree import-policy

Reference routing-policy policy name *string*

Configurable True

Platforms Supported on all platforms

Max. Elements 14

ipv4-flowspec-v1

Description Enter the ipv4-flowspec-v1 context

Options related to the IPv4-unicast address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1

Tree ipv4-flowspec-v1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted prefix-limit-exceeded *boolean*

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Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-flowspec-v1 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-labeled-unicast

Description	Enter the ipv4-labeled-unicast context Options related to the labeled IPv4-unicast address family
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast
Tree	ipv4-labeled-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop-unchanged *boolean*

Description	When set to true, do not change the BGP next-hop towards group peers, even if next-hop-self is normally performed
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast next-hop-unchanged *boolean*
Tree	next-hop-unchanged
Configurable	True
Platforms	Supported on 7250 IXR

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-labeled-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description	Enter the ipv4-unicast context Options related to the IPv4-unicast address family

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast
Tree	ipv4-unicast
Configurable	True
Platforms	Supported on all platforms

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True
Platforms	Supported on all platforms

link-bandwidth

Description	Enter the link-bandwidth context
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth
Tree	link-bandwidth
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

add-next-hop-count-to-received-bgp-routes *(number \| keyword)*

Description	Determines the weight that is internally added to the received PE-CE BGP routes The configured weight is added to all received BGP PE-CE routes for the purpose of EVPN unequal ECMP. This weight is internal and not added into

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any link-bandwidth extended community when readvertising the received routes to other ipv4 or ipv6 neighbors.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Tree add-next-hop-count-to-received-bgp-routes

Range 1 to 128

Options
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-used-paths *boolean*

Description When advertising link-bandwidth to this peer, sum the link bandwidth from all the used multipaths

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth aggregate-used-paths *boolean*

Tree aggregate-used-paths

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-from-interface-speed

Description Enter the auto-from-interface-speed context

Options for controlling the automatic generation of the link-bandwidth extended community based on underlaying interface speed

Applies only to BGP routes (a) received from single-hop BGP peers and (b) that do not already have a link-bandwidth extended-community that was encoded by the peer in its UPDATE message or added by a BGP import policy of this router.

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed

Tree auto-from-interface-speed

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable to add a link-bandwidth extended community to received BGP routes that do not have link-bandwidth extended community

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time *number*

Description Suppress increases in the link-bandwidth value by the specified number of seconds

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed hold-down-time *number*

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Tree	hold-down-time
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transitive *boolean*

Description	When set to true, generate link-bandwidth extended community as a transitive type
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast link-bandwidth auto-from-interface-speed transitive *boolean*
Tree	transitive
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	Supported on all platforms

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	Supported on all platforms

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	Supported on all platforms

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv4-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops

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Configurable	True
Platforms	Supported on all platforms

ipv6-flowspec-v1

Description	Enter the ipv6-flowspec-v1 context Options related to the IPv6-unicast address family
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1
Tree	ipv6-flowspec-v1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted
Tree	prefix-limit-accepted
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received prefix-limit-exceeded *boolean*

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Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-flowspec-v1 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-labeled-unicast

Description Enter the ipv6-labeled-unicast context

Options related to the labeled-IPv6-unicast address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast

Tree ipv6-labeled-unicast

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-unchanged *boolean*

Description When set to true, do not change the BGP next-hop towards group peers, even if next-hop-self is normally performed

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast next-hop-unchanged *boolean*

Tree next-hop-unchanged

Configurable True

Platforms Supported on 7250 IXR

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-labeled-unicast prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description Enter the ipv6-unicast context

Options related to the IPv6-unicast address family

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast

Tree ipv6-unicast

Configurable True

Platforms Supported on all platforms

link-bandwidth

Description Enter the link-bandwidth context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth

Tree link-bandwidth

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Description Determines the weight that is internally added to the received PE-CE BGP routes

The configured weight is added to all received BGP PE-CE routes for the purpose of EVPN unequal ECMP. This weight is internal and not added into any link-bandwidth extended community when readvertising the received routes to other ipv4 or ipv6 neighbors.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth add-next-hop-count-to-received-bgp-routes *(number | keyword)*

Tree add-next-hop-count-to-received-bgp-routes

Range 1 to 128

Options

- disable

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-used-paths *boolean*

Description	When advertising link-bandwidth to this peer, sum the link bandwidth from all the used multipaths
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth aggregate-used-paths *boolean*
Tree	aggregate-used-paths
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-from-interface-speed

Description	Enter the auto-from-interface-speed context Options for controlling the automatic generation of the link-bandwidth extended community based on underlaying interface speed Applies only to BGP routes (a) received from single-hop BGP peers and (b) that do not already have a link-bandwidth extended-community that was encoded by the peer in its UPDATE message or added by a BGP import policy of this router.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed
Tree	auto-from-interface-speed
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable to add a link-bandwidth extended community to received BGP routes that do not have link-bandwidth extended community

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed admin-state *keyword*

Tree admin-state

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-time *number*

Description Suppress increases in the link-bandwidth value by the specified number of seconds

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed hold-down-time *number*

Tree hold-down-time

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transitive *boolean*

Description When set to true, generate link-bandwidth extended community as a transitive type

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast link-bandwidth auto-from-interface-speed transitive *boolean*

Tree transitive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted prevent-teardown *boolean*

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Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	Supported on all platforms

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max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown

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Configurable	True
Platforms	Supported on all platforms

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* ipv6-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	Supported on all platforms

l3vpn-ipv4-unicast

Description	Enter the l3vpn-ipv4-unicast context Options related to the VPN-IPv4 unicast address family
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast
Tree	l3vpn-ipv4-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ipv6-next-hops *boolean*

Description	Enables advertisement of IPv4 routes with IPv6 next-hops
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast advertise-ipv6-next-hops *boolean*
Tree	advertise-ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received

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routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

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Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct

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Range	0 to 100
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-ipv6-next-hops *boolean*

Description	Enables the advertisement of the RFC 8950 capability to receive IPv4 routes with IPv6 next-hops When set to true, BGP advertises an extended NH encoding (RFC 8950) capability to its peers. This capability indicates that local router is prepared to accept BGP routes for the AFI/SAFI with IPv6 next-hops from peers in the scope of the command. When set to false, BGP handles received AFI/SAFI routes with IPv6 next-hops as an error and applies treat-as-withdraw.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv4-unicast receive-ipv6-next-hops *boolean*
Tree	receive-ipv6-next-hops
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l3vpn-ipv6-unicast

Description	Enter the l3vpn-ipv6-unicast context Options related to the VPN-IPv6 unicast address family
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast
Tree	l3vpn-ipv6-unicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description	Enter the prefix-limit-accepted context

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Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-

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teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* l3vpn-ipv6-unicast prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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link-state

Description Enter the link-state context

Options related to the link-state address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state

Tree link-state

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

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Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-received prevent-teardown *boolean*

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Tree	prevent-teardown
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* link-state prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Enter the oper-state context
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* oper-state *keyword*
Tree	oper-state
Options	• up Negotiated operational state of the address family is up • down Negotiated operational state of the address family is down
Configurable	False
Platforms	Supported on all platforms

origin-validation

Description	Enter the origin-validation context Origin validation configuration and statistics for this neighbor AFI-SAFI.

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation

Tree origin-validation

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable origin validation for this neighbor AFI-SAFI

When enabled, routes received from this neighbor for this address family are validated against the local ROA database and the origin-validation-state is set on each received route.

This leaf is independently evaluated and is not inherited from the peer-group or BGP instance level. Explicit configuration is required at this level regardless of peer-group settings. This is consistent with SR OS behavior.

Defaults to disable. Primarily intended for EBGP sessions; enablement on IBGP sessions is not blocked but is not the typical deployment model.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Origin validation prefix counts for this scope. Counts reflect routes whose origin-validation-state has been determined by lookup against the local ROA database. Routes with origin validation disabled are not counted.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-prefixes *number*

Description Number of prefixes with origin-validation-state invalid

The route prefix matched a ROA entry but either the origin AS did not match or the prefix-length exceeded the ROA max-prefix-length.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation statistics invalid-prefixes *number*

Tree invalid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-updated *string*

Description Timestamp of the most recent change to any origin-validation-state counter in this statistics scope

Updated whenever a prefix transitions between valid, invalid, or not-found states. Not present if no origin validation has been performed in this scope since the last statistics reset.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation statistics last-updated *string*

Tree last-updated

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-found-prefixes *number*

Description Number of prefixes with origin-validation-state not-found

No matching ROA entry exists for the route prefix in the local ROA database.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation statistics not-found-prefixes *number*

Tree not-found-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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valid-prefixes *number*

Description	Number of prefixes with origin-validation-state valid The route prefix matched a ROA entry with a matching origin AS and acceptable prefix-length.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* origin-validation statistics valid-prefixes *number*
Tree	valid-prefixes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-routes *number*

Description	The number of routes belonging to this AFI/SAFI received from the peer, including routes rejected by import policy
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* received-routes *number*
Tree	received-routes
Configurable	False
Platforms	Supported on all platforms

received-routes-withdrawn-due-to-error *number*

Description	The number of routes belonging to this AFI/SAFI received from the peer that were withdrawn due to an update packet error
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* received-routes-withdrawn-due-to-error *number*
Tree	received-routes-withdrawn-due-to-error
Configurable	False
Platforms	Supported on all platforms

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rejected-routes *number*

Description The number of routes belonging to this AFI/SAFI received from the peer that were rejected by import policy

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* rejected-routes *number*

Tree rejected-routes

Configurable False

Platforms Supported on all platforms

route-target

Description Enter the route-target context

Options related to the RT constraint address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target

Tree route-target

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-received max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-

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teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-received prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-default-route *boolean*

Description When true the router advertises a synthetically generated default RTC route to the neighbor

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* route-target send-default-route *boolean*

Tree send-default-route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-community-type *keyword*

Description Specify the types of community that should be sent to the peer

If value none is included in the leaf-list, then other values are ignored.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* send-community-type *keyword*

Tree send-community-type

Options

- none

  Send no communities
- standard

  Send standard communities
- extended

  Send extended communities
- large

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Send large communities

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-routes *number*

Description The number of routes belonging to this AFI/SAFI advertised as reachable to the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* sent-routes *number*

Tree sent-routes

Configurable False

Platforms Supported on all platforms

srte-policy-ipv4

Description Enter the srte-policy-ipv4 context

Options related to the segment-routing TE policy for IPv4 endpoints address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4

Tree srte-policy-ipv4

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

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Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-accepted warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description	Enter the prefix-limit-received context Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received
Tree	prefix-limit-received
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-

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teardown = true) or until the session is re-established (applicable if prevent-teardown = false)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received prefix-limit-exceeded *boolean*

Tree prefix-limit-exceeded

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description When false the session is immediately torn down when the max-received-routes limit is reached

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received prevent-teardown *boolean*

Tree prevent-teardown

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv4 prefix-limit-received warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srte-policy-ipv6

Description Enter the srte-policy-ipv6 context

Options related to the segment-routing TE policy for IPv6 endpoints address family

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6

Tree srte-policy-ipv6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-accepted

Description Enter the prefix-limit-accepted context

Options for configuring the maximum number of routes, specific to this address family, allowed to be accepted from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted

Tree prefix-limit-accepted

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-received-routes *number*

Description Maximum number of routes allowed from the peer, counting ONLY routes accepted by import policies

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted max-received-routes *number*

Tree max-received-routes

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Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted prevent-teardown *boolean*
Tree	prevent-teardown
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-accepted warning-threshold-pct *number*

Tree warning-threshold-pct

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-received

Description Enter the prefix-limit-received context

Options for configuring the maximum number of routes, specific to this address family, allowed to be received from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received

Tree prefix-limit-received

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-received-routes *number*

Description	Maximum number of routes allowed from the peer, counting routes accepted and rejected by import policies
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received max-received-routes *number*
Tree	max-received-routes
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-limit-exceeded *boolean*

Description	Changes from false to true when the number of received routes increases to max-received-routes + 1 and remains true until the number of received routes decreases back to max-received-routes (applicable if prevent-teardown = true) or until the session is re-established (applicable if prevent-teardown = false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received prefix-limit-exceeded *boolean*
Tree	prefix-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prevent-teardown *boolean*

Description	When false the session is immediately torn down when the max-received-routes limit is reached
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received prevent-teardown *boolean*

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Tree	prevent-teardown
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-pct *number*

Description	A percentage of the max-received-routes limit that sets the threshold when BGP raises a warning log event
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* srte-policy-ipv6 prefix-limit-received warning-threshold-pct *number*
Tree	warning-threshold-pct
Range	0 to 100
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed-routes *number*

Description	The number of routes belonging to this AFI/SAFI received from the peer that are suppressed because their route-flap-damping FOM is greater than the suppress-threshold
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* afi-safi afi-safi-name *identityref* suppressed-routes *number*
Tree	suppressed-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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as-path-options

Description Enter the as-path-options context

Options for handling the AS_PATH in received BGP routes

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options

Tree as-path-options

Configurable True

Platforms Supported on all platforms

allow-own-as *number*

Description The maximum number of times the global AS number or a local AS number of the BGP instance can appear in any received AS_PATH before it is considered a loop and considered invalid

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options allow-own-as *number*

Tree allow-own-as

Configurable True

Platforms Supported on all platforms

remove-private-as

Description Container with options for removing private AS numbers (2-byte and 4-byte) from the advertised AS path towards all peers

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options remove-private-as

Tree remove-private-as

Configurable True

Platforms Supported on all platforms

ignore-peer-as *boolean*

Description If set to true then do not delete or replace a private AS number that is the same as the peer AS number

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options remove-private-as ignore-peer-as *boolean*
Tree	ignore-peer-as
Default	false
Configurable	True
Platforms	Supported on all platforms

leading-only *boolean*

Description	If set to true then only delete or replace private AS numbers that appear before the first occurrence of a non-private ASN in the sequence of most recent ASNs in the AS path
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options remove-private-as leading-only *boolean*
Tree	leading-only
Default	false
Configurable	True
Platforms	Supported on all platforms

mode *keyword*

Description	The method by which private AS numbers are removed from the advertised AS_PATH attribute
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options remove-private-as mode *keyword*
Tree	mode
Options	• disabled Do not strip or replace any private AS numbers • delete Delete private AS numbers, shortening the AS path • replace Replace private AS numbers with the local AS number used towards the peer, maintaining the AS path length
Configurable	True
Platforms	Supported on all platforms

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replace-peer-as *boolean*

Description	If set to true then replace every occurrence of the peer AS number that is present in the advertised AS path with the local AS number used towards the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* as-path-options replace-peer-as *boolean*
Tree	replace-peer-as
Configurable	True
Platforms	Supported on all platforms

authentication

Description	Enter the authentication context Container with authentication options that apply to this specific peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication
Tree	authentication
Configurable	True
Platforms	Supported on all platforms

keychain *reference*

Description	Reference to a keychain. The keychain type must be tcp-md5.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	Supported on all platforms

password *string*

Description	Configures an MD5 authentication password for use with neighboring devices.

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication password *string*
Tree	password
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmit-active *boolean*

Description	Reads true when the TCP segments being sent to the peer have authentication data.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication transmit-active *boolean*
Tree	transmit-active
Configurable	False
Platforms	Supported on all platforms

clear-malformed-updates

Description	Execute the clear-malformed-updates action Clear retained malformed treat-as-withdraw BGP UPDATE entries
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* clear-malformed-updates
Tree	clear-malformed-updates
Configurable	True
Note	This is an action command
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description	A user provided description string for the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

discovered-by-lldp *boolean*

Description	Set to true if the peer IP address is known through LLDP (irrespective of whether the final TCP connection was originated by this router or not)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* discovered-by-lldp *boolean*
Tree	discovered-by-lldp
Configurable	False
Platforms	Supported on all platforms

dynamic-neighbor *boolean*

Description	Indicates true if the neighbor is a dynamic peer that resulted from an accepted incoming TCP connection or an outgoing TCP connection triggered by LLDP auto-discovery
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* dynamic-neighbor *boolean*
Tree	dynamic-neighbor
Configurable	False
Platforms	Supported on all platforms

error-handling

Description	Enter the error-handling context Container with options that control the handling of errors in BGP messages from a peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling

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Tree	error-handling
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keep-withdrawn-routes

Description	Configure retention of malformed routes that have been treat-as-withdraw. Per RFC 7606 treat-as-withdraw semantics, when an UPDATE message contains a malformed route, the route is treated as if it had been withdrawn. When this container is present, such routes are retained in the peer for troubleshooting and post-mortem analysis instead of being discarded. The retained entries are accessible via state and do not influence route selection or advertisement.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling keep-withdrawn-routes
Tree	keep-withdrawn-routes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-entries-per-neighbor *number*

Description	Maximum number of malformed treat-as-withdraw entries retained per neighbor. Once this limit is reached, new arrivals are no longer retained. If the limit is later lowered below the current retained count, the oldest entries are evicted until the count fits within the new limit. An extra entry is created for every update message containing the malformed route.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling keep-withdrawn-routes max-entries-per-neighbor *number*

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Tree	max-entries-per-neighbor
Range	1 to 10000
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

established-transitions *number*

Description	The total number of times the BGP FSM transitioned into the established state for this peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* established-transitions *number*
Tree	established-transitions
Default	0
Configurable	False
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

failure-detection

Description	Enter the failure-detection context Options related to methods of detecting BGP session failure

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* failure-detection
Tree	failure-detection
Configurable	True
Platforms	Supported on all platforms

enable-bfd *boolean*

Description	The true setting enables Bi-directional Forwarding Detection on BGP sessions belonging to the peer group
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* failure-detection enable-bfd *boolean*
Tree	enable-bfd
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fast-failover *boolean*

Description	The true setting the EBGP or IBGP session to drop immediately (and not wait for hold timer expiry) when the local interface that it depends upon for neighbor reachability goes down
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* failure-detection fast-failover *boolean*
Tree	fast-failover
Configurable	True
Platforms	Supported on all platforms

graceful-restart

Description	Enter the graceful-restart context Options related to router behavior as a graceful restart helper

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable graceful restart helper for all address families
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart admin-state *keyword*
Tree	admin-state
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

helper-active *boolean*

Description	Set to true when the router is actively helping the neighbor for at least one address family - i.e. for that address family the peer restarted with F=1 in its capability and the stale-routes-time has not expired yet
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart helper-active *boolean*
Tree	helper-active
Configurable	False
Platforms	Supported on all platforms

last-restart-time *string*

Description	The last time the peer restarted
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart last-restart-time *string*
Tree	last-restart-time

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

local-capability

Description	Enter the local-capability context Container for information about the last GR capability advertised to the neighbor
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart local-capability
Tree	local-capability
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

afi-safi name *identityref*

Description	List of AFI/SAFI TLVs that were contained in thel ast GR capability sent to the neighbor
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart local-capability afi-safi name *identityref*
Tree	afi-safi
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *identityref*

Description Enter the name context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart local-capability afi-safi name *identityref*

Options

- ipv4-unicast
  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast
  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast
  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast
  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-restarting *boolean*

Description	Set to true when session has restarted, the peer is helping and EOR has not been sent for all AFI-SAFI
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart local-restarting *boolean*
Tree	local-restarting
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description	This leaf indicates the mode of operation of BGP graceful restart with the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart mode *keyword*
Tree	mode
Options	• HELPER_ONLY The local router is operating in helper-only mode, and hence will not retain forwarding state during a local session restart, but will do so during a restart of the remote peer • BILATERAL

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The local router is operating in both helper mode, and hence retains forwarding state during a remote restart, and also maintains forwarding state during local session restart

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-capability

Description Enter the neighbor-capability context

Container for information about the last GR capability received from the neighbor

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart neighbor-capability

Tree neighbor-capability

Configurable False

Platforms Supported on all platforms

afi-safi name *identityref*

Description List of AFI/SAFI TLVs that were contained in the neighbor's last GR capability

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart neighbor-capability afi-safi name *identityref*

Tree afi-safi

Configurable False

Platforms Supported on all platforms

name *identityref*

Description Enter the name context

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart neighbor-capability afi-safi name *identityref*

Options

- ipv4-unicast
  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast
  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast
  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast
  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable False

Platforms Supported on all platforms

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forwarding-preserved *boolean*

Description	The F-bit setting in the AFI/SAFI TLV
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart neighbor-capability afi-safi name *identityref* forwarding-preserved *boolean*
Tree	forwarding-preserved
Configurable	False
Platforms	Supported on all platforms

restart-time *number*

Description	The value of the Restart Time in the neighbor's last GR capability
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart neighbor-capability restart-time *number*
Tree	restart-time
Configurable	False
Platforms	Supported on all platforms

number-of-restarts *number*

Description	The number of times the peer has restarted
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart number-of-restarts *number*
Tree	number-of-restarts
Configurable	False
Platforms	Supported on all platforms

requested-restart-time *number*

Description	The restart time encoded in this router's GR capability. If the neighbor honors this request then this is the maximum time allowed for this router to re-establish its TCP connection after a restart. If this time is exceeded, the neighbor is expected to flush stale routes that it was maintaining on behalf of this router.

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart requested-restart-time *number*
Tree	requested-restart-time
Range	1 to 3600
Default	300
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-routes-time *number*

Description	The maximum number of seconds that routes received from a helped peer remain stale until they are deleted Routes of AFI/SAFI X received from peer Y are marked stale when peer Y goes down and its previous GR capability included AFI/SAFI X.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

import-policy *reference*

Description	Apply an import policy to received BGP routes
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*

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Configurable	True
Platforms	Supported on all platforms
Max. Elements	14

last-bmp-peer-down *string*

Description	Timestamp of the last peer down notification sent
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-bmp-peer-down *string*
Tree	last-bmp-peer-down
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-bmp-peer-up *string*

Description	Timestamp of the last peer up notification sent
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-bmp-peer-up *string*
Tree	last-bmp-peer-up
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-establish-exit-event *keyword*

Description	Event that caused the bgp peer to exit the established state

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-establish-exit-event *keyword*

Tree last-establish-exit-event

Options

- none
  No specific BGP event is recorded
- start
  Start event to initiate BGP session establishment (active side)
- stop
  Stop event to terminate the BGP session
- open
  Local system sent a BGP OPEN message to the peer
- close
  Session or underlying transport was closed
- openFail
  TCP connection attempt to the peer failed
- error
  Transport or socket error on the BGP connection
- connectRetry
  BGP connect-retry timer expired
- holdTime
  Hold timer expired without receiving expected BGP messages
- keepAlive
  Keepalive timer expired (local system sends KEEPALIVE)
- recvOpen
  BGP OPEN message was received from the peer
- recvKeepAlive
  BGP KEEPALIVE message was received from the peer
- recvUpdate
  BGP UPDATE message was received from the peer
- recvNotify
  BGP NOTIFICATION message was received from the peer
- startPassive
  Start event on the passive peering side (incoming connection)
- parseError
  Failed to parse a received BGP protocol message
- outOfMemory

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BGP processing failed due to insufficient memory

- rtmLimitExceed

  Route or prefix limit enforced by the routing table manager was exceeded

- outOfProtNHIndex

  No protected next-hop index available for BGP route installation

- outOfNHIndex

  No next-hop index available for BGP route installation

- labelAllocFailed

  MPLS label allocation failed for BGP-learnt routes

- lspIdAllocFailed

  LSP identifier allocation failed for BGP-learnt routes

- collisionResolution

  BGP connection collision resolution terminated this session

- adminShutdown

  Administrative shutdown of the BGP session (for example cease/ administrative shutdown)

- adminReset

  Administrative reset of the BGP session

- configChange

  Configuration change required the BGP session to be re-established

- maxPrefixExceed

  Configured maximum-prefix threshold for the peer was exceeded

- maxPfxExcdLog

  Maximum-prefix threshold exceeded and logged without necessarily resetting the session

- trackingPolMismatch

  Peer was disabled due to a peer-tracking policy mismatch

- receivedMalformedAttr

  A received BGP path attribute was malformed

- adminResetHard

  Hard administrative reset of the BGP session

- peerDamping

  Peer temporarily placed in idle hold due to flap damping (RFC 4271)

- trackingDown

  BGP session ended because peer tracking detected a reachability failure

- bfdDown

  BGP session ended because the associated BFD session went down

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- fibResourceFail

  BGP session ended because a route could not be installed (for example FIB or RTM resource failure)
- bfdUp

  BFD session associated with the BGP peer transitioned to the up state

Configurable False

Platforms Supported on all platforms

last-established *string*

Description The time when the session last transitioned into or out of the established state

Uptime or downtime of the session can be calculated from this state.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-established *string*

Tree last-established

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-event *keyword*

Description Last event that occured for this neighbor

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-event *keyword*

Tree last-event

Options

- none

  No specific BGP event is recorded
- start

  Start event to initiate BGP session establishment (active side)
- stop

  Stop event to terminate the BGP session
- open

  Local system sent a BGP OPEN message to the peer
- close

  Session or underlying transport was closed
- openFail

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TCP connection attempt to the peer failed

- error
  Transport or socket error on the BGP connection
- connectRetry
  BGP connect-retry timer expired
- holdTime
  Hold timer expired without receiving expected BGP messages
- keepAlive
  Keepalive timer expired (local system sends KEEPALIVE)
- recvOpen
  BGP OPEN message was received from the peer
- recvKeepAlive
  BGP KEEPALIVE message was received from the peer
- recvUpdate
  BGP UPDATE message was received from the peer
- recvNotify
  BGP NOTIFICATION message was received from the peer
- startPassive
  Start event on the passive peering side (incoming connection)
- parseError
  Failed to parse a received BGP protocol message
- outOfMemory
  BGP processing failed due to insufficient memory
- rtmLimitExceed
  Route or prefix limit enforced by the routing table manager was exceeded
- outOfProtNHIndex
  No protected next-hop index available for BGP route installation
- outOfNHIndex
  No next-hop index available for BGP route installation
- labelAllocFailed
  MPLS label allocation failed for BGP-learnt routes
- lspIdAllocFailed
  LSP identifier allocation failed for BGP-learnt routes
- collisionResolution
  BGP connection collision resolution terminated this session
- adminShutdown

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Administrative shutdown of the BGP session (for example cease/administrative shutdown)

- adminReset

  Administrative reset of the BGP session

- configChange

  Configuration change required the BGP session to be re-established

- maxPrefixExceed

  Configured maximum-prefix threshold for the peer was exceeded

- maxPfxExcdLog

  Maximum-prefix threshold exceeded and logged without necessarily resetting the session

- trackingPolMismatch

  Peer was disabled due to a peer-tracking policy mismatch

- receivedMalformedAttr

  A received BGP path attribute was malformed

- adminResetHard

  Hard administrative reset of the BGP session

- peerDamping

  Peer temporarily placed in idle hold due to flap damping (RFC 4271)

- trackingDown

  BGP session ended because peer tracking detected a reachability failure

- bfdDown

  BGP session ended because the associated BFD session went down

- fibResourceFail

  BGP session ended because a route could not be installed (for example FIB or RTM resource failure)

- bfdUp

  BFD session associated with the BGP peer transitioned to the up state

Configurable False

Platforms Supported on all platforms

last-prefix-limit-exceeded *string*

Description Time when the neighbor last violated a configured prefix-limit for any AFI/SAFI

This value is set/updated when any AFI/SAFI prefix-limit-exceeded leaf transitions from false/unset to true.

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-prefix-limit-exceeded *string*

Tree last-prefix-limit-exceeded

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-state *keyword*

Description Previous state of the session

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* last-state *keyword*

Tree last-state

Options

- idle
- connect
- active
- opensent
- openconfirm
- established

Configurable False

Platforms Supported on all platforms

local-as

Description Enter the local-as context

Options related to the local autonomous-system number advertised by this router to the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as

Tree local-as

Configurable True

Platforms Supported on all platforms

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as-number *number*

Description	The local autonomous system number used to override the global ASN on this session Sets the ASN value that this router sends in its OPEN message towards its peer.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

prepend-global-as *boolean*

Description	When set to true, the global ASN value is prepended to the AS path in outbound routes towards the peer If a session is EBGP (peer-as is not equal to the local-as) then the local-as is prepended as the final step, so that the local-as is the first element in the AS_PATH received by the peer.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as prepend-global-as *boolean*
Tree	prepend-global-as
Configurable	True
Platforms	Supported on all platforms

prepend-local-as *boolean*

Description	When set to true, the local AS value is prepended to the AS path of inbound routes from the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as prepend-local-as *boolean*
Tree	prepend-local-as
Configurable	True
Platforms	Supported on all platforms

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local-preference *number*

Description The value of the local-preference attribute that is added to received routes from the peer, if it is EBGP

It is also used to encode the local preference attribute for locally generated BGP routes.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* local-preference *number*

Tree local-preference

Configurable True

Platforms Supported on all platforms

maintenance-group *string*

Description State field to display the maintenance group to which this neighbor belongs to.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* maintenance-group *string*

Tree maintenance-group

Configurable False

Platforms Supported on all platforms

malformed-updates

Description Enter the malformed-updates context

Retained malformed UPDATE entries for this neighbor.

Each entry corresponds to one row in the per-peer retention buffer maintained while error-handling/keep-withdrawn-routes is true. Entries with a parseable NLRI report the prefix and the resolved AFI/SAFI; entries that could not be parsed report 'unknown' for the address family and retain a truncated copy of the raw UPDATE for troubleshooting.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates

Tree malformed-updates

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry afi-safi *keyword* sequence-number *number* entry-id *number*

Description One retained malformed-UPDATE row.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number*

Tree entry

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

afi-safi *keyword*

Description AFI/SAFI bucket this retained entry belongs to. Holds a malformed-update-afi-safi value when BGP resolved the AFI/SAFI from the received UPDATE to an SRL-supported address family, or the sentinel 'unknown' when the AFI/SAFI could not be resolved or is outside that set.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number*

Options

- evpn
- ipv4-flowspec-v1
- ipv4-labeled-unicast
- ipv4-mvpn
- ipv4-unicast
- ipv6-flowspec-v1
- ipv6-labeled-unicast
- ipv6-mvpn
- ipv6-unicast
- l3vpn-ipv4-unicast
- l3vpn-ipv6-unicast

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- link-state
- route-target
- srte-policy-ipv4
- srte-policy-ipv6
- unknown

  BGP could not resolve the AFI/SAFI from this UPDATE, or the resolved AFI/SAFI is outside the set modeled by this typedef.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-number *number*

Description Sequential identifier of the update message. Lower values are older.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-id *number*

Description Sequential identifier of the entry within its (neighbor, afi-safi) bucket. Lower values are older.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *number*

Description Stable identifier of the BGP path-attribute set associated with this retained NLRI, equal to the rib-in attr-id of any sibling NLRIs from the same UPDATE that were not treated as withdrawn. Use 'info from state network-instance <name> bgp-rib attr-sets attr-set <attr-id>' to decode the full attribute set. Absent when when no attribute set was captured (UPDATE-level and unknown-AFI/SAFI entries).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* attr-id *number*

Tree attr-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decoded-attribute-codes *string*

Description Bitmask of BGP path attributes that were successfully decoded from the UPDATE this entry was retained from, rendered as a 32-bit hexadecimal string zero-padded to 8 digits. Bit positions follow the same internal BGP_ATTR_TABLE numbering as malformed-attribute-codes.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* decoded-attribute-codes *string*

Tree decoded-attribute-codes

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decoded-attributes-hex *string*

Description	Wire-format bytes (type, flags, length, value) of every path attribute successfully decoded from the UPDATE this entry was retained from, rendered as a single plain (no-separator) lowercase hex string. The un-truncated source byte count is reported via decoded-attributes-length. Populated only on entries that do not expose an attr-id (typically update-level malformations and unknown AFI/SAFI rows); for entries with an attr-id the same information is reachable via /network-instance/bgp-rib/attr-sets/attr-set so this leaf is omitted to avoid duplication. The string caps at 256 hex characters (128 source bytes)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* decoded-attributes-hex *string*
Tree	decoded-attributes-hex
String Length	0 to 256
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

decoded-attributes-length *number*

Description	Length in bytes of the captured wire-format decoded path attributes (type, flags, length, value concatenated in parse order). The un-truncated source byte count; populated together with decoded-attributes-hex on entries that do not expose an attr-id (typically update-level malformations and unknown AFI/SAFI rows); absent otherwise. For entries with an attr-id the same information is reachable via /network-instance/bgp-rib/attr-sets/attr-set so this leaf is omitted to avoid duplication.

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* decoded-attributes-length *number*

Tree decoded-attributes-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformation-level *keyword*

Description Describes whether the malformation affects the whole update or only one NLRI inside the update packet.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* malformation-level *keyword*

Tree malformation-level

Options

- update-level
- nlri-level
- unknown

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-attribute-codes *string*

Description Bitmask of BGP path attributes that were flagged malformed while parsing the UPDATE, rendered as a 32-bit hexadecimal string zero-padded to 8 digits (e.g. '0x00000001' for ORIGIN, '0x00000400' for MP_REACH). Bit positions follow the internal BGP_ATTR_TABLE numbering (bit 0 is ORIGIN,

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bit 1 is AS_PATH, bit 2 is NEXT_HOP, ...) and do not match wire attribute type codes. '0x00000000' when the per-attribute origin of the malformation is not known.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* malformed-attribute-codes *string*

Tree malformed-attribute-codes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-attributes-hex *string*

Description Wire-format bytes (type, flags, length, value) of every path attribute flagged malformed while parsing the UPDATE this entry was retained from, rendered as a single plain (no-separator) lowercase hex string. The un-truncated source byte count is reported via malformed-attributes-length. Populated only on entries that do not expose an attr-id (typically update-level malformations and unknown AFI/SAFI rows); absent otherwise. The string caps at 256 hex characters (128 source bytes).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* malformed-attributes-hex *string*

Tree malformed-attributes-hex

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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malformed-attributes-length *number*

Description Length in bytes of the captured wire-format malformed path attributes (type, flags, length, value concatenated in parse order). The un-truncated source byte count; populated together with malformed-attributes-hex on entries that do not expose an attr-id (typically update-level malformations and unknown AFI/SAFI rows); absent otherwise.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* malformed-attributes-length *number*

Tree malformed-attributes-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-hex *string*

Description Wire-format NLRI bytes captured at the time the malformed UPDATE was retained, rendered as a single plain (no-separator) lowercase hex string. The un-truncated source byte count is reported via nlri-length. Populated together with nlri-length on nlri-level malformation entries whose AFI/SAFI does not map onto a plain IP prefix. Empty when prefix is populated, when no NLRI was captured (UPDATE-level and unknown-AFI/SAFI rows), or when capture failed (e.g. allocation failure on the producer). The string caps at 256 hex characters (128 source bytes).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* nlri-hex *string*

Tree nlri-hex

String Length 0 to 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlri-length *number*

Description Length in bytes of the captured wire-format NLRI, populated only on nlri-level malformation entries whose AFI/SAFI does not map onto a plain IP prefix (evpn, mvpn, flowspec, link-state, l2vpn, mdt, srte, vpn-ipv*, route-target-constrain, mcast-* and multi-segment pseudowire).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* nlri-length *number*

Tree nlri-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description Add-path Path Identifier (RFC 7911) carried by this NLRI when add-path was negotiated for the AFI/SAFI in the receive direction. Reported as zero on update-level malformations (whose error is detected before the NLRI walk so no per-NLRI path-id is in scope), on AFI/SAFIs that do not negotiate add-path, on entries whose AFI/SAFI could not be resolved, and when the peer genuinely sent path-id 0.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* path-id *number*

Tree path-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *(ipv4-prefix | ipv6-prefix)*

Description Prefix carried by this NLRI, when BGP was able to parse it and the address family maps onto a plain IP prefix (ipv4-unicast, ipv6-unicast and the labeled variants). Absent for UPDATE-level malformations, for AFI/SAFIs whose NLRI is opaque from the IP-prefix point of view (evpn, mvpn, flowspec, link-state, l2vpn, mdt, srte, vpn-ipv*, route-target-constrain, mcast-* and multi-segment pseudowire - those entries carry their wire NLRI via nlri-length / nlri-hex instead), and for entries whose AFI/SAFI could not be resolved.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* prefix *(ipv4-prefix | ipv6-prefix)*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raw-update-hex *string*

Description Copy of the raw UPDATE bytes, rendered as plain (no-separator) lowercase hex chunks. The total byte stream is split into chunks of up to 128 bytes (256 hex characters) each; the full UPDATE can be reconstructed by concatenating the chunks in list order, and its total length is reported via raw-update-length. The list caps at 32 elements (4096 source bytes).

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* raw-update-hex *string*

Tree raw-update-hex

String Length 256

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

raw-update-length *number*

Description Length in bytes of the captured raw UPDATE bytes. Zero unless raw-update-hex is set.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* raw-update-length *number*

Tree raw-update-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reason-string *string*

Description Human-readable decode of the reason-mask

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* reason-string *string*

Tree reason-string

String Length 1 to 1024

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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timestamp *string*

Description Time at which the malformed UPDATE was retained.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* malformed-updates entry afi-safi *keyword* sequence-number *number* entry-id *number* timestamp *string*

Tree timestamp

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multihop

Description Enter the multihop context

Configuration parameters specifying the multihop behaviour for an EBGP peer. This is not applicable to an IBGP peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* multihop

Tree multihop

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description When enabled, the peer is allowed to be indirectly connected by up to N hops, where N is controlled by the maximum-hops parameter. When disabled, multihop is allowed only if the peer type is IBGP.

This overrides the group setting for admin-state.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* multihop admin-state *keyword*

Tree admin-state

Options

- enable

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- disable

Configurable True

Platforms Supported on all platforms

maximum-hops *number*

Description This sets the maximum number of routing hops towards the peer. It determines the IP TTL value in originated BGP TCP/IP packets. By default the TTL is set to 1 towards an EBGP peer and 64 towards an IBGP peer.

This overrides the group setting for maximum-hops.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* multihop maximum-hops *number*

Tree maximum-hops

Range 1 to 255

Configurable True

Platforms Supported on all platforms

next-hop-self *boolean*

Description When set to true, the next-hop in all IPv4-unicast, IPv6-unicast and EVPN BGP routes advertised to the peer, if IBGP, is set equal to the local-address used on this session (or to the router ID if the NLRI is IPv6 and there is no IPv6 local address to use). This is independent of the route origin (EBGP, IBGP-client, IBGP-non-client or redistributed direct/static/aggregate route).

When set to false, normal BGP rules from RFC 4271 apply.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-self *boolean*

Tree next-hop-self

Configurable True

Platforms Supported on all platforms

optional-attributes

Description Enter the optional-attributes context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* optional-attributes

Tree optional-attributes

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-prefix-sid *boolean*

Description	Remove the prefix SID optional transitive attribute in all received and sent routes to this peer, or group of peers
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* optional-attributes block-prefix-sid *boolean*
Tree	block-prefix-sid
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-as *number*

Description	The autonomous system number expected from the peer A configured session with a peer does not come up if this value does not match the AS value reported by the peer in its OPEN message.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

peer-group *reference*

Description	A reference to the peer-group template to use for this BGP session This is not immutable.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-group *reference*
Tree	peer-group
Reference	network-instance name *string* protocols bgp group group-name *string*
Configurable	True

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Platforms Supported on all platforms

peer-router-id *string*

Description The BGP identifier advertised by the peer in its OPEN message

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-router-id *string*

Tree peer-router-id

Configurable False

Platforms Supported on all platforms

peer-type *keyword*

Description The session type. The type is EBGP when the local AS and peer AS are different, and the type is IBGP when the local AS and peer AS have the same value.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-type *keyword*

Tree peer-type

Options

- ibgp

  Indicates that the peer is IBGP (local-as == peer-as).

- ebgp

  Indicates that the peer is EBGP (local-as != peer-as).

Configurable False

Platforms Supported on all platforms

received-afi-safi *identityref*

Description List of multiprotocol BGP address families supported by the peer, derived from the AFI/SAFI list in the MP-BGP capability received by the local routing device from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-afi-safi *identityref*

Tree received-afi-safi

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)

- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)

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- l3vpn-ipv4-unicast
  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast
  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable False

Platforms Supported on all platforms

received-capabilities *keyword*

Description List of BGP capabilities received by the local routing device from the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-capabilities *keyword*

Tree received-capabilities

Options

- MP_BGP

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- ROUTE_REFRESH
- EXT_NH_ENCODING
- GRACEFUL_RESTART
- 4-OCTET_ASN
- ORF_SEND_EXCOMM
- ORF_RECEIVE_EXCOMM
- ADD_PATH
- LONG_LIVED_GR

Configurable False

Platforms Supported on all platforms

received-end-of-rib *identityref*

Description List of address families for which the peer has signaled the End of RIB marker

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-end-of-rib *identityref*

Tree received-end-of-rib

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast

  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast

  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn

  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn

  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn

  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1

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FlowSpec routes (AFI = 1, SAFI = 133)

- ipv6-flowspec-v1

  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target

  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state

  Link State (AFI 16388, SAFI 71)

Configurable False

Platforms Supported on all platforms

received-messages

Description Enter the received-messages context

Container for state information about BGP messages received from the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages

Tree received-messages

Configurable False

Platforms Supported on all platforms

last-notification-error-code *keyword*

Description The error code in the last NOTIFICATION received from this peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages last-notification-error-code *keyword*

Tree last-notification-error-code

Options

- Message Header Error
- Open Message Error
- Update Message Error
- Hold Timer Error
- Finite State Machine Error

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- Cease

Configurable False

Platforms Supported on all platforms

last-notification-error-subcode *keyword*

Description The error subcode in the last NOTIFICATION received from the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages last-notification-error-subcode *keyword*

Tree last-notification-error-subcode

Options

- Connection Not Synchronized
- Bad Message Length
- Bad Message Type
- Unsupported Version Number
- Bad Peer As
- Bad BGP Identifier
- Unsupported Optional Parameter
- Unacceptable Hold Time
- UPDATE Message Error subcodes
- Malformed Attribute List
- Unrecognized Well-known Attribute
- Missing Well-known Attribute
- Attribute Flags Error
- Attribute Length Error
- Invalid ORIGIN Attribute
- Invalid NEXT_HOP Attribute
- Optional Attribute Error
- Invalid Network Field
- Malformed AS_PATH
- Maximum Number of Prefixes Reached
- Administrative Shutdown
- Peer De-configured
- Administrative Reset
- Connection Rejected
- Other Configuration Change
- Connection Collision Resolution

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- Out of Resources
- Unspecific
- Hard Reset
- Unsupported Capability

Configurable False

Platforms Supported on all platforms

last-notification-time *string*

Description Timestamp representing the time of the last Notification message received from the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages last-notification-time *string*

Tree last-notification-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-update-time *string*

Description The timestamp when the last UPDATE was received from this peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages last-update-time *string*

Tree last-update-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

malformed-updates *number*

Description Number of BGP UPDATE messages received from the peer that were malformed but recoverable through treat-as-withdraw or attribute-discard (i.e. without session reset)

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages malformed-updates *number*

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Tree	malformed-updates
Default	0
Configurable	False
Platforms	Supported on all platforms

queue-depth *number*

Description	The number of messages received from the peer currently queued.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages queue-depth *number*
Tree	queue-depth
Configurable	False
Platforms	Supported on all platforms

route-refresh *number*

Description	Number of BGP ROUTE_REFRESH messages received from the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages route-refresh *number*
Tree	route-refresh
Default	0
Configurable	False
Platforms	Supported on all platforms

total-messages *number*

Description	Total number of BGP messages received from the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages total-messages *number*
Tree	total-messages
Default	0
Configurable	False
Platforms	Supported on all platforms

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total-non-updates *number*

Description	Number of BGP NON UPDATE messages received from the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages total-non-updates *number*
Tree	total-non-updates
Configurable	False
Platforms	Supported on all platforms

total-notifications *number*

Description	Number of BGP Notification messages received from the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages total-notifications *number*
Tree	total-notifications
Configurable	False
Platforms	Supported on all platforms

total-updates *number*

Description	Number of BGP UPDATE messages received from the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* received-messages total-updates *number*
Tree	total-updates
Default	0
Configurable	False
Platforms	Supported on all platforms

route-flap-damping *boolean*

Description	Enable/disable route flap damping procedures for routes received from this peer if it is an EBGP peer

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If no value is configured, the setting is inherited from the peer-group to which the peer belongs.

The configured or omherited setting has no effect if the peer is IBGP.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-flap-damping *boolean*

Tree route-flap-damping

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-reflector

Description Enter the route-reflector context

Container with route reflection configuration options.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-reflector

Tree route-reflector

Configurable True

Platforms Supported on all platforms

client *boolean*

Description When this is set to true this BGP session is considered an RR client.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-reflector client *boolean*

Tree client

Configurable True

Platforms Supported on all platforms

cluster-id *(number | dotted-quad)*

Description The cluster-id to insert into the CLUSTER_LIST attribute when reflecting routes received by or sent to this client. The default is inherited from group or instance level configuration.

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-reflector cluster-id *(number | dotted-quad)*
Tree	cluster-id
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

send-default-route

Description	Enter the send-default-route context Options for controlling the generation of default routes towards the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default-route
Tree	send-default-route
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Policy used to modify the BGP attributes of the generated default route
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default-route export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

ipv4-unicast *boolean*

Description	Enables the sending of a synthetically generated default IPv4 route [0/0] to the peer
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default-route ipv4-unicast *boolean*
Tree	ipv4-unicast
Configurable	True

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Platforms Supported on all platforms

ipv6-unicast *boolean*

Description Enables the sending of a synthetically generated default IPv6 route [::/0] to the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default-route ipv6-unicast *boolean*

Tree ipv6-unicast

Configurable True

Platforms Supported on all platforms

sent-end-of-rib *identityref*

Description List of address families for which this router sent the peer an End of RIB marker

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-end-of-rib *identityref*

Tree sent-end-of-rib

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast

  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast

  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn

  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn

  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn

  L3 MVPN routes (AFI = 2, SAFI = 5)

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- ipv4-flowspec-v1

  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1

  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target

  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state

  Link State (AFI 16388, SAFI 71)

Configurable False

Platforms Supported on all platforms

sent-messages

Description Enter the sent-messages context

Container for state information about BGP messages sent to the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages

Tree sent-messages

Configurable False

Platforms Supported on all platforms

last-notification-error-code *keyword*

Description The error code in the last NOTIFICATION sent to this peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages last-notification-error-code *keyword*

Tree last-notification-error-code

Options

- Message Header Error
- Open Message Error
- Update Message Error
- Hold Timer Error
- Finite State Machine Error

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- Cease

Configurable False

Platforms Supported on all platforms

last-notification-error-subcode *keyword*

Description The error subcode in the last NOTIFICATION sent to this peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages last-notification-error-subcode *keyword*

Tree last-notification-error-subcode

Options

- Connection Not Synchronized
- Bad Message Length
- Bad Message Type
- Unsupported Version Number
- Bad Peer As
- Bad BGP Identifier
- Unsupported Optional Parameter
- Unacceptable Hold Time
- UPDATE Message Error subcodes
- Malformed Attribute List
- Unrecognized Well-known Attribute
- Missing Well-known Attribute
- Attribute Flags Error
- Attribute Length Error
- Invalid ORIGIN Attribute
- Invalid NEXT_HOP Attribute
- Optional Attribute Error
- Invalid Network Field
- Malformed AS_PATH
- Maximum Number of Prefixes Reached
- Administrative Shutdown
- Peer De-configured
- Administrative Reset
- Connection Rejected
- Other Configuration Change
- Connection Collision Resolution

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- Out of Resources
- Unspecific
- Hard Reset
- Unsupported Capability

Configurable False

Platforms Supported on all platforms

last-notification-time *string*

Description Timestamp representing the time of the last Notification message sent to the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages last-notification-time *string*

Tree last-notification-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

queue-depth *number*

Description The number of messages queued to be sent to the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages queue-depth *number*

Tree queue-depth

Configurable False

Platforms Supported on all platforms

route-refresh *number*

Description Number of BGP ROUTE_REFRESH messages sent to the peer over the lifetime of its configuration or since the last clear.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages route-refresh *number*

Tree route-refresh

Default 0

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Configurable	False
Platforms	Supported on all platforms

total-messages *number*

Description	Total number of BGP messages sent to the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages total-messages *number*
Tree	total-messages
Default	0
Configurable	False
Platforms	Supported on all platforms

total-non-updates *number*

Description	Number of BGP NON UPDATE messages sent to the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages total-non-updates *number*
Tree	total-non-updates
Configurable	False
Platforms	Supported on all platforms

total-notifications *number*

Description	Number of BGP Notification messages sent to the peer over the lifetime of its configuration or since the last clear.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages total-notifications *number*
Tree	total-notifications
Configurable	False
Platforms	Supported on all platforms

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total-updates *number*

Description Number of BGP UPDATE messages sent to the peer over the lifetime of its configuration or since the last clear.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* sent-messages total-updates *number*

Tree total-updates

Default 0

Configurable False

Platforms Supported on all platforms

session-state *keyword*

Description Current state of the session

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* session-state *keyword*

Tree session-state

Options

- idle
- connect
- active
- opensent
- openconfirm
- established

Configurable False

Platforms Supported on all platforms

slow-peer *keyword*

Description Set to 'yes' if, after the last BGP restart, the session was in a lesser state than established when the min-wait-to-advertise timer expired

Set to unknown if the min-wait-to-advertise time has not yet elapsed.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* slow-peer *keyword*

Tree slow-peer

Options

- yes
- no

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- unknown

Configurable False

Platforms Supported on all platforms

timers

Description Enter the timers context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers

Tree timers

Configurable True

Platforms Supported on all platforms

connect-retry *number*

Description The time interval in seconds between successive attempts to establish a session with a peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers connect-retry *number*

Tree connect-retry

Range 1 to 65535

Units seconds

Configurable True

Platforms Supported on all platforms

hold-time *number*

Description The hold-time interval in seconds that the router proposes to the peer in its OPEN message

The actual in-use hold-time is negotiated to the lowest value proposed by the two peers. A negotiated value of 0 suppresses the sending of keepalives by both peers.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers hold-time *number*

Tree hold-time

Range 0 | 3 to 65535

Units seconds

Configurable True

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Platforms	Supported on all platforms

keepalive-interval *number*

Description	The interval in seconds between successive keepalive messages sent to the peer The period between one keepalive message and the next is the minimum of this configured (or inherited) value and 1/3 of the negotiated hold-time duration. A value of 0 suppresses the sending of keepalives to the peer.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers keepalive-interval *number*
Tree	keepalive-interval
Range	0 to 21845
Units	seconds
Configurable	True
Platforms	Supported on all platforms

minimum-advertisement-interval *number*

Description	The value assigned to the MinRouteAdvertisementIntervalTimer of RFC 4271, for both EBGP and IBGP sessions Each session runs its own independent timer and the timer affects both route advertisements and route withdrawals, regardless of address family. For route withdrawals only, this timer is bypassed if rapid-withdrawal is set to true.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers minimum-advertisement-interval *number*
Tree	minimum-advertisement-interval
Range	1 to 255
Units	seconds
Configurable	True
Platforms	Supported on all platforms

negotiated-hold-time *number*

Description	The operational hold-time

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It is negotiated to the lowest value proposed by the two peers. A negotiated value of 0 suppresses the sending of keepalives by both peers.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers negotiated-hold-time *number*

Tree negotiated-hold-time

Configurable False

Platforms Supported on all platforms

negotiated-keepalive-interval *number*

Description The operational keepalive interval

It is the minimum of the configured value and 1/3 of the negotiated-hold-time. A value of 0 suppresses the sending of keepalives to the peer.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers negotiated-keepalive-interval *number*

Tree negotiated-keepalive-interval

Configurable False

Platforms Supported on all platforms

next-connect-retry-time *string*

Description The time when the next connect retry attempt will occur

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers next-connect-retry-time *string*

Tree next-connect-retry-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

prefix-limit-restart-timer *(keyword | number)*

Description The time interval in seconds to wait until re-establishing the BGP session automatically after exceeding any prefix limit (of any address family)

If set to forever, the session is not re-established automatically; it can only be re-established by action of a clear command.

This leaf only applies if prevent-teardown is false.

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Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* timers prefix-limit-restart-timer *(keyword | number)*
Tree	prefix-limit-restart-timer
Options	• forever
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context Debug traceoptions for BGP
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* trace-options
Tree	trace-options
Configurable	True
Platforms	Supported on all platforms

flag name *keyword*

Description	Tracing parameters
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* trace-options flag name *keyword*
Tree	flag
Configurable	True
Platforms	Supported on all platforms

name *keyword*

Description	Enter the name context

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* trace-options flag name *keyword*

Options

- events

  Trace all BGP events.
- packets

  Trace all BGP protocol packets.
- open

  Trace BGP open packets.
- keepalive

  Trace BGP keepalive packets.
- graceful-restart

  Trace Graceful Restart events.
- timers

  Trace routing protocol timer processing.
- route

  Trace BGP route table manager.
- notification

  Trace Bgp notification.
- socket

  Trace socket info.
- update

  Trace update info.

Configurable True

Platforms Supported on all platforms

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* trace-options flag name *keyword* modifier *keyword*

Tree modifier

Options

- detail

  To enable detailed tracing. Includes both received and sent packets.
- receive

  To enable tracing for the packets which are received.

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- send

  To enable tracing for the sent packets.

Configurable True

Platforms Supported on all platforms

transport

Description Enter the transport context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport

Tree transport

Configurable True

Platforms Supported on all platforms

local-address *(ipv4-address | ipv6-address | subinterface-all)*

Description The local TCP endpoint of used for the BGP session

This also the source address for next-hop-self, if it applies. The local-address can be specified as an IP address that is resolvable to a local interface.

This address must be the primary address of an interface, otherwise the session will not come up.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport local-address *(ipv4-address | ipv6-address | subinterface-all)*

Tree local-address

String Length 5 to 27

Configurable True

Platforms Supported on all platforms

local-port *number*

Description Local TCP port used for the TCP connection to the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport local-port *number*

Tree local-port

Configurable False

Platforms Supported on all platforms

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mtu-discovery *boolean*

Description	Turns path mtu discovery on (true) or off (false)
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport mtu-discovery *boolean*
Tree	mtu-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

passive-mode *boolean*

Description	The true setting causes BGP to wait for the peer to initiate the TCP connection The false setting causes BGP to initiate a TCP connection whenever the BGP session is started or restarted.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport passive-mode *boolean*
Tree	passive-mode
Configurable	True
Platforms	Supported on all platforms

remote-port *number*

Description	Remote TCP port used by the peer for its TCP connection to the local router
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport remote-port *number*
Tree	remote-port
Configurable	False
Platforms	Supported on all platforms

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tcp-mss *number*

Description	The maximum segment size of BGP TCP packets The configured value of this leaf is the TCP MSS value advertised to the peer during TCP connection setup (in the TCP MSS option), reduced if necessary to accommodate the outgoing interface IP MTU. The state value of this leaf is the operational TCP MSS used in the data transmit direction towards the peer. It may be less than the received TCP MSS option value due to adjustment for TCP options used in the transit direction and/or the path MTU discovery process (if enabled).
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* transport tcp-mss *number*
Tree	tcp-mss
Range	536 to 9446
Units	bytes
Configurable	True
Platforms	Supported on all platforms

under-maintenance *boolean*

Description	State field to determine if this bgp neighbor is in maintenance mode.
Context	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* under-maintenance *boolean*
Tree	under-maintenance
Configurable	False
Platforms	Supported on all platforms

next-hop-resolution-policy *reference*

Description	Policy to evaluate whether the route or tunnel chosen to resolve each BGP next-hop is acceptable or not The policy applies to all BGP routes learned from all BGP peers of the network-instance, spanning all AFI-SAFI with next-hops that need resolution, and covers both IPv4 next-hop addresses and IPv6 next-hop addresses.
Context	network-instance name *string* protocols bgp next-hop-resolution-policy *reference*
Tree	next-hop-resolution-policy
Reference	routing-policy policy name *string*
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Enter the oper-state context
Context	network-instance name *string* protocols bgp oper-state *keyword*
Tree	oper-state
Options	• up Operational state of BGP is up. • down Operational state of BGP is down.
Configurable	False
Platforms	Supported on all platforms

origin-validation

Description	Enter the origin-validation context Aggregate origin validation statistics across all address families and neighbors for this BGP instance.
Context	network-instance name *string* protocols bgp origin-validation
Tree	origin-validation
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Origin validation prefix counts for this scope. Counts reflect routes whose origin-validation-state has been determined by lookup against the local ROA database. Routes with origin validation disabled are not counted.

Context network-instance name *string* protocols bgp origin-validation statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-prefixes *number*

Description Number of prefixes with origin-validation-state invalid

The route prefix matched a ROA entry but either the origin AS did not match or the prefix-length exceeded the ROA max-prefix-length.

Context network-instance name *string* protocols bgp origin-validation statistics invalid-prefixes *number*

Tree invalid-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-updated *string*

Description Timestamp of the most recent change to any origin-validation-state counter in this statistics scope

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Updated whenever a prefix transitions between valid, invalid, or not-found states. Not present if no origin validation has been performed in this scope since the last statistics reset.

Context network-instance name *string* protocols bgp origin-validation statistics last-updated *string*

Tree last-updated

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-found-prefixes *number*

Description Number of prefixes with origin-validation-state not-found

No matching ROA entry exists for the route prefix in the local ROA database.

Context network-instance name *string* protocols bgp origin-validation statistics not-found-prefixes *number*

Tree not-found-prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-prefixes *number*

Description Number of prefixes with origin-validation-state valid

The route prefix matched a ROA entry with a matching origin AS and acceptable prefix-length.

Context network-instance name *string* protocols bgp origin-validation statistics valid-prefixes *number*

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Tree	valid-prefixes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preference

Description	Enter the preference context Options for controlling the route table preference of BGP routes
Context	network-instance name *string* protocols bgp preference
Tree	preference
Configurable	True
Platforms	Supported on all platforms

ebgp *number*

Description	The default route table preference for all EBGP learned routes BGP import policies can override this preference value on a route by route basis.
Context	network-instance name *string* protocols bgp preference ebgp *number*
Tree	ebgp
Range	1 to 255
Default	170
Configurable	True
Platforms	Supported on all platforms

ibgp *number*

Description	The default route table preference for all IBGP learned routes BGP import policies can override this preference value on a route by route basis.
Context	network-instance name *string* protocols bgp preference ibgp *number*

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Tree	ibgp
Range	1 to 255
Default	170
Configurable	True
Platforms	Supported on all platforms

rib-management

Description	Enter the rib-management context
Context	network-instance name *string* protocols bgp rib-management
Tree	rib-management
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table address-family *identityref*

Description	List of RIB tables maintained by BGP running in this network-instance
Context	network-instance name *string* protocols bgp rib-management table address-family *identityref*
Tree	table
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-family *identityref*

Description	BGP address family

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Context network-instance name *string* protocols bgp rib-management table address-family *identityref*

Options

- ipv4-unicast
  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast
  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast
  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast
  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table-import *reference*

Description Apply a route policy to accept routes that should be installed in the BGP RIB table

Context network-instance name *string* protocols bgp rib-management table address-family *identityref* route-table-import *reference*

Tree route-table-import

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-advertisement

Description Enter the route-advertisement context

Options for controlling route advertisement behavior

Context network-instance name *string* protocols bgp route-advertisement

Tree route-advertisement

Configurable True

Platforms Supported on all platforms

rapid-withdrawal *boolean*

Description The true setting enables rapid-withdraw towards BGP peers

If there is only one BGP route for an NLRI in BGP RIB, and this route is withdrawn or becomes invalid, rapid-withdraw causes BGP to immediately send a withdrawal of the BGP route even if the min-route-advertisement timer has not expired.

Context network-instance name *string* protocols bgp route-advertisement rapid-withdrawal *boolean*

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Tree	rapid-withdrawal
Default	false
Configurable	True
Platforms	Supported on all platforms

wait-for-fib-install *boolean*

Description	The true setting causes BGP to NOT advertise initial reachability to a prefix, or a change of reachability to a prefix, until it receives acknowledgment from FIB manager that the route change has been applied Does not apply to route withdrawals.
Context	network-instance name *string* protocols bgp route-advertisement wait-for-fib-install *boolean*
Tree	wait-for-fib-install
Default	true
Configurable	True
Platforms	Supported on all platforms

route-flap-damping

Description	Enter the route-flap-damping context Configuration to control BGP route flap damping procedures
Context	network-instance name *string* protocols bgp route-flap-damping
Tree	route-flap-damping
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

half-life *number*

Description	Duration of time for the penalty amount (FOM) to be reduced by half if a route stays stable

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Context	network-instance name *string* protocols bgp route-flap-damping half-life *number*
Tree	half-life
Range	1 to 45
Default	15
Units	minutes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-suppress-time *number*

Description	Maximum duration of time that advertisement of a route that has flapped can be suppressed
Context	network-instance name *string* protocols bgp route-flap-damping max-suppress-time *number*
Tree	max-suppress-time
Range	1 to 720
Default	60
Units	minutes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-threshold *number*

Description	A suppressed route can be advertised again after falling below this penalty (FOM) level

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Context	network-instance name *string* protocols bgp route-flap-damping reuse-threshold *number*
Tree	reuse-threshold
Range	1 to 20000
Default	750
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppress-threshold *number*

Description	A flapping route is suppressed after rising above this penalty (FOM) level
Context	network-instance name *string* protocols bgp route-flap-damping suppress-threshold *number*
Tree	suppress-threshold
Range	1 to 20000
Default	3000
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-reflector

Description	Enter the route-reflector context Container with route reflection configuration options.
Context	network-instance name *string* protocols bgp route-reflector
Tree	route-reflector
Configurable	True

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Platforms	Supported on all platforms

client *boolean*

Description	When this is set to true all configured and dynamic sessions of the BGP instance are considered RR clients, subject to overrides at more specific levels of configuration.
Context	network-instance name *string* protocols bgp route-reflector client *boolean*
Tree	client
Default	false
Configurable	True
Platforms	Supported on all platforms

cluster-id *(number | dotted-quad)*

Description	The cluster-id to insert into the CLUSTER_LIST attribute when reflecting routes received by or sent to clients in this scope of this container. The default is the router-id.
Context	network-instance name *string* protocols bgp route-reflector cluster-id *(number | dotted-quad)*
Tree	cluster-id
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

router-id *(ipv4-address | ipv6-address)*

Description	The BGP identifier used by this BGP instance in all of its OPEN messages Any non-zero value is supported.
Context	network-instance name *string* protocols bgp router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	True
Platforms	Supported on all platforms

rpki

Description	RPKI configuration for BGP origin validation

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Contains RPKI-RTR cache server session management and statically configured ROA entries. RPKI is only supported in the default network-instance.

The ROA database and origin-validation operational state are maintained under BGP (not inside this container) since BGP is the consumer of the database for validation decisions. See srl_nokia-bgp-origin-validation.yang for those elements.

Context network-instance name *string* protocols bgp rpki

Tree rpki

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entries

Description Enter the roa-entries context

Aggregate ROA database view for this network-instance's RPKI configuration.

Contains one entry per (prefix, origin-as, max-prefix-length, source) tuple across all active RPKI-RTR cache-server sessions AND the statically configured static-roa entries. Walk order mirrors the panos merged ROA database: prefix key order across all sources.

Split by address family into ipv4 and ipv6 sub-containers so a query for one AFI never enumerates entries of the other, matching the ipv4/ipv6 split already used under .../session/<name>/roa-entries.

Per-session views remain available at .../session/<name>/roa-entries/{ipv4,ipv6}/roa-entry for gNMI subscribers that want per-session feeds; the aggregate view is what the operator-facing 'show ... rpki roa-database ipv{4,6}' command consumes.

Context network-instance name *string* protocols bgp rpki roa-entries

Tree roa-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Aggregate IPv4 ROA entries

Context network-instance name *string* protocols bgp rpki roa-entries ipv4

Tree ipv4

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Description A single aggregated IPv4 ROA entry, dynamic or static.

Row uniqueness across sources is provided by the session key component: the session name for dynamic entries, the reserved sentinel '--' for entries contributed by the static-roa configuration list.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Tree roa-entry

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv4 prefix of this ROA entry.

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The prefix-length serves as the minimum prefix-length: routes must be covered by this prefix to match this entry.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description AS number authorized to originate this prefix per this ROA

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-prefix-length *number*

Description Maximum prefix-length the origin AS is authorized to announce

Routes with a prefix-length exceeding this value are considered invalid even if the origin AS matches.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session *string*

Description Session that provided this ROA entry, or the reserved sentinel '--' when the entry came from the static-roa configuration list. Static entries have no owning session; the '--' sentinel makes each combination of (prefix, origin-as, max-prefix-length, source) a distinct list key. Session names that would collide with the sentinel are rejected at configuration time by a must-constraint on rpki-session-config/name.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-state *keyword*

Description Runtime state of a dynamic entry. Absent for static entries.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* entry-state *keyword*

Tree entry-state

Options

- active

  Entry is current and contributing to origin validation.

- stale

  Dynamic entry retained after its session went down but whose stale-time has not yet expired. Never present for static entries.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *keyword*

Description Source and validity classification of this entry.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* entry-type *keyword*

Tree entry-type

Options

- dynamic

  Received from an RPKI-RTR cache server session

- static-valid

  Statically configured with entry-type valid

- static-invalid

  Statically configured with entry-type invalid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *string*

Description Transport network-instance of the session that provided this entry. Absent for static entries.

Context network-instance name *string* protocols bgp rpki roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* network-instance *string*

Tree network-instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

Aggregate IPv6 ROA entries

Context network-instance name *string* protocols bgp rpki roa-entries ipv6

Tree ipv6

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Description A single aggregated IPv6 ROA entry, dynamic or static.

Row uniqueness across sources is provided by the session key component: the session name for dynamic entries, the reserved sentinel '--' for entries contributed by the static-roa configuration list.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Tree roa-entry

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv6 prefix of this ROA entry.

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The prefix-length serves as the minimum prefix-length: routes must be covered by this prefix to match this entry.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description AS number authorized to originate this prefix per this ROA

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-prefix-length *number*

Description Maximum prefix-length the origin AS is authorized to announce

Routes with a prefix-length exceeding this value are considered invalid even if the origin AS matches.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session *string*

Description Session that provided this ROA entry, or the reserved sentinel '--' when the entry came from the static-roa configuration list. Static entries have no owning session; the '--' sentinel makes each combination of (prefix, origin-as, max-prefix-length, source) a distinct list key. Session names that would collide with the sentinel are rejected at configuration time by a must-constraint on rpki-session-config/name.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-state *keyword*

Description Runtime state of a dynamic entry. Absent for static entries.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* entry-state *keyword*

Tree entry-state

Options

- active

  Entry is current and contributing to origin validation.

- stale

  Dynamic entry retained after its session went down but whose stale-time has not yet expired. Never present for static entries.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *keyword*

Description Source and validity classification of this entry.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* entry-type *keyword*

Tree entry-type

Options

- dynamic

  Received from an RPKI-RTR cache server session

- static-valid

  Statically configured with entry-type valid

- static-invalid

  Statically configured with entry-type invalid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *string*

Description Transport network-instance of the session that provided this entry. Absent for static entries.

Context network-instance name *string* protocols bgp rpki roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* session *string* network-instance *string*

Tree network-instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session name *string*

Description RPKI-RTR cache server sessions

Up to 4 concurrent RPKI-RTR sessions are supported per network-instance. All established sessions contribute concurrently to the merged ROA database; there is no session preference or tie-break mechanism in this release.

The unique constraint on [cache-server network-instance] prevents configuring two sessions that reach the same cache server via the same network-instance, since such sessions would be functionally redundant and could double-count or conflict over the same ROA feed.

Context network-instance name *string* protocols bgp rpki session name *string*

Tree session

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

name *string*

Description Administrative name for this RPKI-RTR session

Used as the list key and as a human-readable label in operational state output and syslog events.

The literal string '--' is reserved as the sentinel that identifies static entries in the aggregate rpki/roa-entries state list and is therefore rejected here.

Context network-instance name *string* protocols bgp rpki session name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of this RPKI-RTR session

When set to disable, the TCP connection is torn down and no new connection attempts are made. The session enters the cleanup state and all ROA entries received from this cache server are immediately purged from the ROA database. The session transitions to idle once cleanup completes.

This differs from a session clear tools command, which also purges entries immediately but does not enter the cleanup state and triggers an automatic reconnect attempt.

Context network-instance name *string* protocols bgp rpki session name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cache-server *(ipv4-address | ipv6-address)*

Description IP address of the RPKI cache server

Supports both IPv4 and IPv6 addresses. The address must be reachable from the configured network-instance.

Context network-instance name *string* protocols bgp rpki session name *string* cache-server *(ipv4-address | ipv6-address)*

Tree cache-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connect-retry *number*

Description Interval between TCP connection retry attempts to the cache server

After a session goes down or a connection attempt fails, the router waits connect-retry seconds before making the next connection attempt.

Context network-instance name *string* protocols bgp rpki session name *string* connect-retry *number*

Tree connect-retry

Range 10 to 3600

Default 120

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Operator-provided description for this RPKI-RTR session

Free-form text for administrative reference. Does not affect session behavior.

Context network-instance name *string* protocols bgp rpki session name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-time *number*

Description Duration after which the session is declared down if no messages are received from the cache server

The hold timer is reset on receipt of any RPKI-RTR PDU from the cache server. If the timer expires, the session transitions to idle and reconnection begins after connect-retry expires. Configured locally per RFC 6810; not negotiated with the cache server.

Context network-instance name *string* protocols bgp rpki session name *string* hold-time *number*

Tree hold-time

Range 10 to 3600

Default 600

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description Source IP address for the TCP connection to the cache server

When not configured, the system selects the source address based on routing in the configured network-instance. Explicit configuration may be required when the cache server enforces source-address-based access control.

Context network-instance name *string* protocols bgp rpki session name *string* local-address *(ipv4-address | ipv6-address)*

Tree local-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description Network-instance used to route the TCP connection to the cache server

Allows the cache server TCP connection to be established via a different network-instance than the one where BGP is running. A common deployment is to reach the RPKI cache server via the management network-instance (type ip-vrf) while BGP runs in the default network-instance.

Only network-instances of type default or ip-vrf are permitted.

Defaults to 'default' so the [cache-server network-instance] uniqueness constraint on the session list is well-defined even when this leaf is left unconfigured.

Context network-instance name *string* protocols bgp rpki session name *string* network-instance *reference*

Tree network-instance

Default default

Reference network-instance name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *number*

Description TCP port number of the RPKI cache server

The IANA-assigned well-known port for RPKI-RTR is 323. Non-standard ports may be configured if the cache server is deployed on an alternate port.

Context network-instance name *string* protocols bgp rpki session name *string* port *number*

Tree port

Range 0 to 65535

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Default	323
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

refresh-time *number*

Description	Interval at which Serial Query PDUs are sent to the cache server Controls how frequently the router polls the cache server for incremental ROA database updates when the session is established and no Serial Notify has been received. Configured locally per RFC 6810; not negotiated with the cache server.
Context	network-instance name *string* protocols bgp rpki session name *string* refresh-time *number*
Tree	refresh-time
Range	10 to 3600
Default	300
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entries

Description	Enter the roa-entries context Per-session ROA entry table for this RPKI-RTR cache server Contains the authoritative per-session view of ROA records received from this cache server. This container is a sibling of the session state leaves, not a child of a state container. This separation ensures that queries for session

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summary state do not enumerate potentially hundreds of thousands of ROA entries inline, consistent with the BGP per-peer rib pattern.

The container is split by address family into ipv4 and ipv6 sub-containers. Each sub-container holds only the entries of its family and uses an AFI-specific prefix key type, so a query targeting one family never traverses entries of the other. This mirrors the ipv4-unicast / ipv6-unicast split used in the IP route tables.

Static ROA entries are not present in this container; they are visible in the static-roa configuration list. A consolidated view of the full ROA database is obtained by reading the static-roa configuration list first, followed by the ipv4 and ipv6 roa-entry lists under each session sequentially. This reflects the internal per-session storage architecture and is consistent with SR OS.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries

Tree roa-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 ROA entries received from this cache server

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4

Tree ipv4

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Description A single IPv4 ROA record received dynamically from this cache server

The composite key [prefix origin-as max-prefix-length] matches the structure of a ROA as defined in RFC 6482.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Tree roa-entry

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv4 prefix of this ROA entry

The prefix-length serves as the minimum prefix-length: routes must be covered by this prefix to match this entry.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description AS number authorized to originate this prefix per this ROA

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Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-prefix-length *number*

Description Maximum prefix-length the origin AS is authorized to announce

Routes with a prefix-length exceeding this value are considered invalid even if the origin AS matches.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-state *keyword*

Description Current state of this ROA entry

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv4 roa-entry prefix *string* origin-as *number* max-prefix-length *number* entry-state *keyword*

Tree entry-state

Options

- active

  Entry is current and contributing to BGP origin validation. The session is up and this entry is synchronized with the cache server.

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- stale

  Entry is retained after the session went down but has not yet been purged. The entry continues to contribute to BGP origin validation until stale-time expires.

  The delta between roa-entries-active and roa-entries-received reflects the number of stale entries being held for this session.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

IPv6 ROA entries received from this cache server

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6

Tree ipv6

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Description A single IPv6 ROA record received dynamically from this cache server

The composite key [prefix origin-as max-prefix-length] matches the structure of a ROA as defined in RFC 6482.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Tree roa-entry

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv6 prefix of this ROA entry

The prefix-length serves as the minimum prefix-length: routes must be covered by this prefix to match this entry.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description AS number authorized to originate this prefix per this ROA

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-prefix-length *number*

Description Maximum prefix-length the origin AS is authorized to announce

Routes with a prefix-length exceeding this value are considered invalid even if the origin AS matches.

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-state *keyword*

Description Current state of this ROA entry

Context network-instance name *string* protocols bgp rpki session name *string* roa-entries ipv6 roa-entry prefix *string* origin-as *number* max-prefix-length *number* entry-state *keyword*

Tree entry-state

Options

- active

  Entry is current and contributing to BGP origin validation. The session is up and this entry is synchronized with the cache server.

- stale

  Entry is retained after the session went down but has not yet been purged. The entry continues to contribute to BGP origin validation until stale-time expires.

  The delta between roa-entries-active and roa-entries-received reflects the number of stale entries being held for this session.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-time *number*

Description

Duration that ROA entries remain valid after the session goes down

When the RPKI-RTR session is lost, all ROA entries received from this cache server are marked stale. If the session is not re-established before stale-time expires, the stale entries are purged from the ROA database and affected BGP routes are re-evaluated.

The extended upper range of 262144 seconds (approximately 3 days) provides resilience during prolonged cache server outages, preventing premature removal of ROA data that would cause valid routes to transition to not-found.

Context

network-instance name *string* protocols bgp rpki session name *string* stale-time *number*

Tree

stale-time

Range

1 to 262144

Default

3600

Units

seconds

Configurable

True

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state

Description

Enter the state context

Summary operational state for this RPKI-RTR session.

Context

network-instance name *string* protocols bgp rpki session name *string* state

Tree

state

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-attempts *number*

Description Total number of TCP connection attempts made since admin-state was last set to enable

Incremented on each outbound TCP SYN. Useful for identifying sessions that are repeatedly failing to connect.

Context network-instance name *string* protocols bgp rpki session name *string* state connection-attempts *number*

Tree connection-attempts

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update-time *string*

Description Time elapsed since the last ROA database update was received from this cache server

Updated on receipt of every End-of-Data PDU from the cache server, including responses to periodic serial queries that contain no data changes. This means the timestamp advances even when no ROA entries were added or deleted, reflecting that the cache server has confirmed the local database is current as of that serial number.

Not present if no End-of-Data PDU has been received in the current session lifetime.

Context network-instance name *string* protocols bgp rpki session name *string* state last-update-time *string*

Tree last-update-time

String Length 20 to 32

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entries-active *number*

Description	Number of ROA entries from this cache server currently present in the session's entry table, including stale entries whose stale-time has not yet expired This counter remains non-zero while a session is down but entries have not been purged. It reaches zero only after stale-time expires and all entries are removed, or after an explicit tools roa-database clear-by-session operation. When compared with roa-entries-received, a value of roa-entries-active greater than roa-entries-received indicates entries being held stale pending session re-establishment. Under normal operation with a healthy synchronized session the two values are equal.
Context	network-instance name *string* protocols bgp rpki session name *string* state roa-entries-active *number*
Tree	roa-entries-active
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

roa-entries-received *number*

Description	Net number of ROA entries asserted by this cache server at the time the session connection was last lost Incremented as IPv4 Prefix and IPv6 Prefix PDUs with flag announce are processed. Decremented when delete announcements are processed during the session lifetime. Reset to zero when the session connection goes down. This gives the counter diagnostic value: while the session is down, roa-entries-active remains non-zero (showing stale entries still held) while roa-entries-received is zero, making the difference immediately visible as the

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stale entry count. When the session is established and synchronized, both counters are equal.

Provides per-cache accountability for telemetry without requiring enumeration of the full ROA database in YANG state.

Context network-instance name *string* protocols bgp rpki session name *string* state roa-entries-received *number*

Tree roa-entries-received

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

serial-number *number*

Description Most recently received serial number from this cache server

Used to request incremental updates via Serial Query PDUs. A discontinuity in the serial number causes the router to request a full reset and re-synchronization of the ROA database.

Context network-instance name *string* protocols bgp rpki session name *string* state serial-number *number*

Tree serial-number

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id *number*

Description Session ID assigned by the cache server

Used to detect cache server restarts. A change in session ID triggers a full ROA database reset for this session.

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Context network-instance name *string* protocols bgp rpki session name *string* state session-id *number*

Tree session-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-state *keyword*

Description Current operational state of the RPKI-RTR session

Reflects the state machine defined in RFC 6810: idle (no connection), connect (TCP in progress), up (session established and exchanging data), error (protocol error encountered).

Context network-instance name *string* protocols bgp rpki session name *string* state session-state *keyword*

Tree session-state

Options

- idle

  Session is not established and no connection attempt is in progress
- connect

  Session is attempting to establish a TCP connection to the cache server
- up

  Session is established and exchanging data with the cache server
- error

  Session has encountered a protocol error
- cleanup

  Session is administratively disabled and stale entries are being purged from the ROA database.

  The session remains in cleanup until all ROA entries received from this cache server have been removed. A subsequent admin-state enable will not initiate a new connection attempt until cleanup completes. If the same cache-server and network-instance combination is assigned to another session, that session waits for this cleanup to finish before attempting its first connection.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

RPKI-RTR protocol message counters for this session. All counters are cumulative since admin-state was last set to enable and are not reset on session re-establishment. Counters are reset when admin-state is set to disable or when the cache-server address is changed. Behavior on application restart is TBD pending implementation.

Context network-instance name *string* protocols bgp rpki session name *string* state statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

errors *number*

Description Total RPKI-RTR error PDUs encountered on this session

Includes error PDUs received from the cache server and error PDUs generated locally due to protocol violations detected on this router.

Certain error PDU types mandate session teardown per RFC 8210 section 10. An increment of this counter may therefore be correlated with a session-state transition to error or cleanup.

TCP-level connection failures are not reflected in this counter; those are captured in connection-attempts.

Context network-instance name *string* protocols bgp rpki session name *string* state statistics errors *number*

Tree errors

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-cache-reset *number*

Description	Cache Reset PDUs received from the cache server Indicates the cache server cannot satisfy the requested serial number and a full reset is required.
Context	network-instance name *string* protocols bgp rpki session name *string* state statistics in-cache-reset *number*
Tree	in-cache-reset
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-cache-response *number*

Description	Cache Response PDUs received from the cache server Marks the beginning of a cache response cycle following a Serial Query or Reset Query.
Context	network-instance name *string* protocols bgp rpki session name *string* state statistics in-cache-response *number*
Tree	in-cache-response
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-end-of-data *number*

Description End of Data PDUs received from the cache server

Marks the completion of a cache response cycle. The roa-entries-received counter is updated at this point.

Context network-instance name *string* protocols bgp rpki session name *string* state statistics in-end-of-data *number*

Tree in-end-of-data

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-messages *number*

Description Total RPKI-RTR PDUs received on this session

Context network-instance name *string* protocols bgp rpki session name *string* state statistics in-messages *number*

Tree in-messages

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-serial-notify *number*

Description Serial Notify PDUs received from the cache server

Each Serial Notify triggers a Serial Query to request incremental ROA updates.

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Context	network-instance name *string* protocols bgp rpki session name *string* state statistics in-serial-notify *number*
Tree	in-serial-notify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-messages *number*

Description	Total RPKI-RTR PDUs sent on this session
Context	network-instance name *string* protocols bgp rpki session name *string* state statistics out-messages *number*
Tree	out-messages
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-reset-query *number*

Description	Reset Query PDUs sent to the cache server Sent when a full ROA database re-synchronization is required, for example after a session ID change or serial number discontinuity.
Context	network-instance name *string* protocols bgp rpki session name *string* state statistics out-reset-query *number*
Tree	out-reset-query
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-serial-query *number*

Description Serial Query PDUs sent to the cache server

Sent periodically at refresh-time intervals and on receipt of a Serial Notify PDU.

Context network-instance name *string* protocols bgp rpki session name *string* state statistics out-serial-query *number*

Tree out-serial-query

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

uptime *string*

Description Time elapsed since the session last transitioned to the up state

Cleared and restarted each time the session re-establishes. Not present if the session has never reached the up state.

Context network-instance name *string* protocols bgp rpki session name *string* state uptime *string*

Tree uptime

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace-options

Description Per-session debug trace options for RPKI-RTR PDU processing on this cache-server session

Configure either the aggregate 'all' leaf or one or more of the per-PDU 'flag' entries. The two forms are mutually exclusive at the schema level. Traced PDUs are logged at debug severity under the rpki logging subsystem identity; the rpki subsystem must separately be enabled at debug severity in /system/logging for traces to appear in a log file.

Context network-instance name *string* protocols bgp rpki session name *string* trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all

Description Trace every RPKI-RTR PDU type sent or received on this session

Cannot be combined with the per-PDU flag list.

Context network-instance name *string* protocols bgp rpki session name *string* trace-options all

Tree all

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flag *keyword*

Description Per-PDU-type tracing

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One or more flags may be set simultaneously. Present only when the 'all' leaf is not configured.

Context network-instance name *string* protocols bgp rpki session name *string* trace-options flag *keyword*

Tree flag

Options

- serial-notify

  Serial Notify PDUs (RFC 6810 Section 5.6)
- serial-query

  Serial Query PDUs (RFC 6810 Section 5.3)
- reset-query

  Reset Query PDUs (RFC 6810 Section 5.4)
- cache-response

  Cache Response PDUs (RFC 6810 Section 5.5)
- cache-reset

  Cache Reset PDUs (RFC 6810 Section 5.9)
- end-of-data

  End of Data PDUs (RFC 6810 Section 5.8)
- ipv4-prefix

  IPv4 Prefix PDUs (RFC 6810 Section 5.6)
- ipv6-prefix

  IPv6 Prefix PDUs (RFC 6810 Section 5.7)
- error-report

  Error Report PDUs (RFC 6810 Section 5.10)

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number*

Description Statically configured ROA entries

Static entries are evaluated alongside dynamic entries received from RPKI-RTR cache servers. When a static entry and a dynamic entry exist for the

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same prefix and origin AS, the static entry takes precedence. Static entries are not subject to stale-time and are never automatically purged.

The composite key [prefix origin-as max-prefix-length] permits multiple static ROA entries for the same prefix provided they differ in origin-as or max-prefix-length. This supports multi-origin anycast and route transfer scenarios where a single prefix may be legitimately originated by more than one AS.

max-prefix-length is mandatory as a list key. A value equal to the prefix-length of the prefix leaf expresses a no-deaggregation ROA (exact-length match only).

Context network-instance name *string* protocols bgp rpki static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number*

Tree static-roa

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description IPv4 or IPv6 prefix for this static ROA entry

Used as the list key. The prefix-length of this value serves as the minimum prefix-length for the entry.

Context network-instance name *string* protocols bgp rpki static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description AS number that is authorized (or explicitly not authorized) to originate this prefix

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Interpreted according to entry-type: when entry-type is valid, this AS is authorized to originate the prefix. When entry-type is invalid, routes from this AS for this prefix are explicitly marked invalid regardless of any dynamic ROA entries.

Context network-instance name *string* protocols bgp rpki static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number*

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-prefix-length *number*

Description Maximum prefix-length the origin AS is authorized to announce

A received route is valid only if its prefix-length is less than or equal to this value. Mandatory as this leaf forms part of the list key [prefix origin-as max-prefix-length]. A value equal to the prefix-length of the prefix leaf expresses a no-deaggregation ROA (exact-length match only).

Context network-instance name *string* protocols bgp rpki static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *keyword*

Description Whether this static entry asserts a valid or invalid prefix-to-AS binding

Static entries with entry-type valid behave like a locally injected ROA. Static entries with entry-type invalid allow operators to explicitly mark specific prefix-origin AS combinations as invalid, for example to protect against known mis-originations.

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Static entries take precedence over dynamic entries received from RPKI-RTR cache servers.

Context network-instance name *string* protocols bgp rpki static-roa prefix *(ipv4-prefix | ipv6-prefix)* origin-as *number* max-prefix-length *number* entry-type *keyword*

Tree entry-type

Options

- valid

  Static ROA entry expressing a valid prefix-to-AS binding

- invalid

  Static ROA entry expressing an invalid prefix-to-AS binding

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-routing-mpls

Description Enter the segment-routing-mpls context

BGP support for segment routing using MPLS dataplane

Context network-instance name *string* protocols bgp segment-routing-mpls

Tree segment-routing-mpls

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable SR-MPLS support within BGP

Context network-instance name *string* protocols bgp segment-routing-mpls admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Container for BGP statistics.
Context	network-instance name *string* protocols bgp statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

disabled-peers *number*

Description	The number of configured BGP peers that are administratively disabled
Context	network-instance name *string* protocols bgp statistics disabled-peers *number*
Tree	disabled-peers
Configurable	False
Platforms	Supported on all platforms

dynamic-peers *number*

Description	The number of dynamic BGP peers that are currently in the established state, counting sessions resulting from accepted incoming TCP connections and outgoing TCP connections triggered by LLDP auto-discovery
Context	network-instance name *string* protocols bgp statistics dynamic-peers *number*
Tree	dynamic-peers
Configurable	False
Platforms	Supported on all platforms

path-memory *number*

Description	The total number of bytes required to store the path attribute objects used by all received BGP routes
Context	network-instance name *string* protocols bgp statistics path-memory *number*

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Tree	path-memory
Default	0
Configurable	False
Platforms	Supported on all platforms

total-active-routes *number*

Description	The total number of received BGP routes that are active (installed for forwarding), summed across all address families
Context	network-instance name *string* protocols bgp statistics total-active-routes *number*
Tree	total-active-routes
Default	0
Configurable	False
Platforms	Supported on all platforms

total-decayed-routes *number*

Description	The total number of received BGP routes that are eligible for use but have a route-flap-damping FOM greater than 0 and less than the suppress-threshold
Context	network-instance name *string* protocols bgp statistics total-decayed-routes *number*
Tree	total-decayed-routes
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-history-routes *number*

Description	The total number of recently withdrawn BGP routes that are still held in the BGP RIB because their route-flap-damping FOM is greater than 0
Context	network-instance name *string* protocols bgp statistics total-history-routes *number*

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Tree	total-history-routes
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-paths *number*

Description	The total number of path attribute objects used by all received BGP routes
Context	network-instance name *string* protocols bgp statistics total-paths *number*
Tree	total-paths
Default	0
Configurable	False
Platforms	Supported on all platforms

total-peers *number*

Description	The total number of configured BGP peers
Context	network-instance name *string* protocols bgp statistics total-peers *number*
Tree	total-peers
Configurable	False
Platforms	Supported on all platforms

total-prefixes *number*

Description	The total number of unique NLRI contained in all received BGP routes associated with the BGP instance or the peer-group.
Context	network-instance name *string* protocols bgp statistics total-prefixes *number*
Tree	total-prefixes
Configurable	False
Platforms	Supported on all platforms

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total-received-routes *number*

Description	The total number of received BGP routes, summed across all address families
Context	network-instance name *string* protocols bgp statistics total-received-routes *number*
Tree	total-received-routes
Default	0
Configurable	False
Platforms	Supported on all platforms

total-suppressed-routes *number*

Description	The total number of received BGP routes that are suppressed because their route-flap-damping FOM is greater than the suppress-threshold
Context	network-instance name *string* protocols bgp statistics total-suppressed-routes *number*
Tree	total-suppressed-routes
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-peers *number*

Description	The number of configured BGP peers that are currently in the established state
Context	network-instance name *string* protocols bgp statistics up-peers *number*
Tree	up-peers
Configurable	False
Platforms	Supported on all platforms

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trace-options

Description Enter the trace-options context

Debug traceoptions for BGP

Context network-instance name *string* protocols bgp trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

flag name *keyword*

Description Tracing parameters

Context network-instance name *string* protocols bgp trace-options flag name *keyword*

Tree flag

Configurable True

Platforms Supported on all platforms

name *keyword*

Description Enter the name context

Context network-instance name *string* protocols bgp trace-options flag name *keyword*

Options

- events

  Trace all BGP events.
- packets

  Trace all BGP protocol packets.
- open

  Trace BGP open packets.
- keepalive

  Trace BGP keepalive packets.
- graceful-restart

  Trace Graceful Restart events.
- timers

  Trace routing protocol timer processing.
- route

  Trace BGP route table manager.
- notification

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Trace Bgp notification.

- socket

  Trace socket info.

- update

  Trace update info.

Configurable True

Platforms Supported on all platforms

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols bgp trace-options flag name *keyword* modifier *keyword*

Tree modifier

Options

- detail

  To enable detailed tracing. Includes both received and sent packets.

- receive

  To enable tracing for the packets which are received.

- send

  To enable tracing for the sent packets.

Configurable True

Platforms Supported on all platforms

transport

Description Enter the transport context

Options related to the TCP transport of BGP sessions

Context network-instance name *string* protocols bgp transport

Tree transport

Configurable True

Platforms Supported on all platforms

mtu-discovery *boolean*

Description Turns path mtu discovery for BGP TCP sessions on (true) or off (false)

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If this is unconfigured then the setting comes from network-instance/mtu/path-mtu-discovery.

Changing the value of network-instance/mtu/path-mtu-discovery takes effect only for new connections established after the change

Context network-instance name *string* protocols bgp transport mtu-discovery *boolean*

Tree mtu-discovery

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

single-hop-connected-check *boolean*

Description Control whether a single-hop BGP session should be allowed to setup if its 'related interface' is down.

If single-hop-connected-check is false, a single-hop BGP session (EBGP or IBGP) to any IPv4 or IPv6 neighbor address is permitted to establish if there is ANY valid (IPv6 global unicast, IPv4 link-local, or IPv4 global) route to that neighbor address, regardless of whether the 'related interface' is up or down.

If single-hop-connected-check is true (default value), a single-hop BGP session (EBGP or IBGP) to any IPv4 or IPv6 neighbor address is only permitted to transition from idle to a higher state if the 'related interface' is up.

The 'related interface' of a single hop peer is the subinterface associated with the IPv6 link local neighbor address or else the subinterface with a primary or secondary IP address and prefix-length that covers the neighbor address.

Context network-instance name *string* protocols bgp transport single-hop-connected-check *boolean*

Tree single-hop-connected-check

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-mss *number*

Description The maximum segment size of BGP TCP packets

The actual value used in the transmit direction towards a particular peer should be checked at the neighbor level.

Context network-instance name *string* protocols bgp transport tcp-mss *number*

Tree tcp-mss

Range 536 to 9446

Default 1024

Configurable True

Platforms Supported on all platforms

under-maintenance *boolean*

Description State field to determine if the bgp instance is in maintenance mode.

Context network-instance name *string* protocols bgp under-maintenance *boolean*

Tree under-maintenance

Configurable False

Platforms Supported on all platforms

bgp-evpn

Description Top-level configuration and operational state for BGP Ethernet Virtual Private Networks (EVPN)

Context network-instance name *string* protocols bgp-evpn

Tree bgp-evpn

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bgp-instance id *reference*

Description	bgp evpn instances configured in net-instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference*
Tree	bgp-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

id *reference*

Description	Enter the id context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference*
Reference	network-instance name *string* protocols bgp-vpn bgp-instance id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Configurable state of the bgp evpn instance.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-domain-id *string*

Description D-PATH Domain ID of the received EVPN route that is added to the D-PATH Attribute when the route is readvertised

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* dpath-domain-id *string*

Tree dpath-domain-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp *number*

Description The supported range of ECMP values for layer-2 aliasing (in mac-vrf or vpws instances) or layer-3 ecmp (in routed instances)

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* ecmp *number*

Tree ecmp

Range 1 to 128

Default 1

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encapsulation-type *keyword*

Description encap type of the bgp evpn instance.

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Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* encapsulation-type *keyword*

Tree encapsulation-type

Default vxlan

Options

- vxlan
- mpls
- srv6

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi *number*

Description EVPN Instance identifier associated to the bgp-evpn instance.

Used for auto-derivation of:

In addition, the evi value is used for the EVPN Multi-Homing Designated Forwarder (DF) Election.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* evi *number*

Tree evi

Range 1 to 65535

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-based-policy

Description Enter the group-based-policy context

Configuration and state related to group based policy

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* group-based-policy

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Tree	group-based-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

add-community *boolean*

Description	When advertising routes, add a Group Policy ID extended community to routes that have a GBP tag
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* group-based-policy add-community *boolean*
Tree	add-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install-from-community *boolean*

Description	When installing routes, program the GBP tag based on the received Group Policy ID extended community
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* group-based-policy install-from-community *boolean*
Tree	install-from-community
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ignore-mtu-mismatch *boolean*

Description	Configures whether MTU mismatches between received values on IMET routes and the local MAC-VRF MTU are ignored When set to true, the Layer-2 MTU carried in the Layer-2 Attributes extended community on IMET routes is not compared against the local MAC-VRF MTU. When set to false, an IMET route whose Layer-2 Attributes extended community reports an MTU that differs from the local MAC-VRF service MTU causes the EVPN destination toward that peer to be treated as non-viable. The inclusive multicast destination is not installed, unicast MACs learned from that peer are programmed as blackhole, and the evpnNetworkInstance MtuMismatch event is raised. This leaf has no effect when the Layer-2 Attributes extended community is not advertised or processed for this bgp-instance.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* ignore-mtu-mismatch *boolean*
Tree	ignore-mtu-mismatch
Default	false
Configurable	True
Platforms	ignore-mtu-mismatch-mac-vrf and evpn-incl-mcast-l2-attr-ext-comm

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* internal-tags
Tree	internal-tags
Configurable	True
Platforms	Supported on all platforms

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*

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Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

mpls

Description	Enable the mpls context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls
Tree	mpls
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description	Enable the bridge-table context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table
Tree	bridge-table
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-multicast-mpls-label *number*

Description	The ingress label allocated for Broadcast, Unknown unicast and Multicast traffic The ingress multicast mpls label is advertised by the EVPN Inclusive Multicast Ethernet Tag (IMET) route and it is expected on received EVPN packets that were generated as BUM packets.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table ingress-multicast-mpls-label *number*
Tree	ingress-multicast-mpls-label
Range	16 to 1048575
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-unicast-mpls-label *number*

Description	The ingress label allocated for unicast traffic The ingress unicast mpls label is advertised by the EVPN MAC/IP Advertisement routes and it is expected on received EVPN packets that were generated as unicast packets.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table ingress-unicast-mpls-label *number*
Tree	ingress-unicast-mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-destinations

Description	Enter the multicast-destinations context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations
Tree	multicast-destinations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Description	Enter the destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Tree	destination
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description The IP address that identifies the remote EVPN Termination Endpoint (TEP).

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-label *number*

Description EVI label of the destination.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description tunnel identitier of the destination.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-index *number*

Description A system-wide unique identifier of this evpn-mpls destination object (system allocated).

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* destination-index *number*

Tree destination-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-forwarding *keyword*

Description The type of multicast data forwarded by this evpn-mpls destination.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* multicast-forwarding *keyword*

Tree multicast-forwarding

Options

- none
- BUM
- unknown-unicast
- broadcast-mcast
- mcast

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the destination is not programmed in the floodlist

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index

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- multicast-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-limit

Description Enter the multicast-limit context

Multicast limits per vxlan interface.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations multicast-limit

Tree multicast-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-usage *number*

Description Maximum number of multicast vxlan-destinations in use on this bgp-evpn mpls instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations multicast-limit current-usage *number*

Tree current-usage

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description Maximum number of multicast vxlan-destinations allowed on a bgp-evpn mpls instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table multicast-destinations multicast-limit maximum-entries *number*

Tree maximum-entries

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

split-horizon-group *reference*

Description	The split-horizon-group associated to the evpn-mpls instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table split-horizon-group *reference*
Tree	split-horizon-group
Reference	network-instance name *string* bridge-table split-horizon-group name *string*
Configurable	True
Platforms	Supported on 7220 IXR-Dx, 7215 IXS-A1, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5 platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries that are active on the evpn-mpls instance.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-entries *number*

Description The total number of macs, which have not been programmed on at least one slot.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description The type of the mac on the evpn-mpls instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics mac-type type *keyword*

Tree mac-type

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved

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- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the evpn-mpls instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on at least one slot

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs of this type, active and inactive, on the evpn-mpls instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics mac-type type *keyword* total-entries *number*

Tree total-entries

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the evpn-mpls instance.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-destinations

Description	Enter the unicast-destinations context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations
Tree	unicast-destinations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Description	Enter the destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Tree	destination
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-label *number*

Description	EVI label of the destination
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	tunnel identitier of the destination.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-index *number*

Description	A system-wide unique identifier of this evpn-mpls destination object (system allocated)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description	Enter the mac-table context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table
Tree	mac-table
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string*
Tree	mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description	The list of slot IDs corresponding to the linecards that did not successfully program the mac
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string* failed-slots *number*
Tree	failed-slots
Range	1 to 18
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this mac
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the mac is not programmed

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Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the mac installed in the fib

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* mac-table mac address *string* type *keyword*

Tree type

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-programmed-reason *keyword*

Description	The reason why the evpn-mpls destination is not programmed
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* not-programmed-reason *keyword*
Tree	not-programmed-reason
Options	• no-destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries that are active on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-entries *number*

Description The total number of macs, which have not been programmed on atleast one slot

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description the type of the mac on the sub-interface.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics mac-type type *keyword*

Tree mac-type

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast

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- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on atleast one slot

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-entries *number*

Description	The total number of macs of this type, active and inactive, on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

es-destination esi *string*

Description	Enter the es-destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string*
Tree	es-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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esi *string*

Description	The 10-byte Ethernet Segment Identifier of the ethernet segment. ESI-0 or MAX-ESI values are not allowed.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Description	Add a list entry for destination
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-label *number*

Description	EVI label of the destination.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

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Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	tunnel identitier of the next-hop.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of this evpn-mpls destination object (system allocated)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description	Enter the mac-table context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table
Tree	mac-table
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac address *string*

Description macs learnt on the bridging instance

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*

Tree mac

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description The list of slot IDs corresponding to the linecards that did not successfully program the mac

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* failed-slots *number*

Tree failed-slots

Range 1 to 18

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this mac

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the mac is not programmed
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* not-programmed-reason *keyword*
Tree	not-programmed-reason
Options	• mac-limit • failed-on-slots • no-destination-index • reserved
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	The type of the mac installed in the fib
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* type *keyword*
Tree	type
Options	• static • duplicate • learnt • irb-interface • evpn

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- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries that are active on the sub-interface

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs, which have not been programmed on atleast one slot

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	the type of the mac on the sub-interface.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Enter the type context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*
Options	• static • duplicate • learnt • irb-interface • evpn • evpn-static • irb-interface-anycast • proxy-anti-spoof • reserved • eth-cfm • irb-interface-vrrp

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries of this type on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs of this type, which have not been programmed on atleast one slot
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs of this type, active and inactive, on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* total-entries *number*
Tree	total-entries

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls bridge-table unicast-destinations es-destination esi *string* statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description	Configures the use of control-word for EVPN MPLS packets When set to true, the router pushes the control-word below the bottom of the stack label. This prevents the Provider routers from mistakenly decode the payload of EVPN packets as an IP header and misorder packets of the same flow.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls control-word *boolean*
Tree	control-word
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-label *boolean*

Description	Configures the use of flow-label for EVPN MPLS packets When set to true, the router signals the use of the Flow Aware Transport (FAT) label in the F flag of the Layer 2 attributes extended community sent

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along with the EVPN routes (AD per EVI for VPWS or Inclusive Multicast Ethernet Tag route for MAC-VRF). For EVPN VPWS network instances, if the local and remote flags are set to 1 and match, the flow label is pushed at the bottom of the stack. On reception, the flow label is also expected and packets without it are dropped. If there is a mismatch between the local and remote F flags, the EVPN destination is removed.

On a mac-vrf, flow-label can only be enabled when advertise-l2-attributes-extended-community is true under routes/bridge-table/inclusive-mcast.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls flow-label *boolean*

Tree flow-label

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description Enter the next-hop-resolution context

Options related to the resolution of IPv4 or IPv6 BGP next-hops to Tunnels

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution

Tree next-hop-resolution

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description list of allowed tunnel types

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Min. Elements	1

selection-attributes

Description	Enter the selection-attributes context Attributes for narrowing the selection of tunnels
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes
Tree	selection-attributes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo

Description	Enter the flex-algo context Next-hop resolution constraints based on flexible algorithms
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes flex-algo
Tree	flex-algo
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy) If false, it is possible to select a tunnel that has a different algorithm than the route.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes flex-algo mandatory *boolean*
Tree	mandatory
Default	false

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description	Enter the tag context Next-hop resolution constraints based on internal tags
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes tag
Tree	tag
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description	If true, a tunnel can resolve the next-hop only if it has all the same tags as the route If false, it is possible to select a tunnel that has none or only some of the same tags as the route.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes tag mandatory *boolean*
Tree	mandatory
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table

Description	Enable the route-table context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls route-table
Tree	route-table
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mpls-label *number*

Description	The ingress label allocated for Routed traffic The ingress mpls label is advertised by the Route-Type 5(RT5) route and it is expected on received routed EVPN packets.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* mpls route-table ingress-mpls-label *number*
Tree	ingress-mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-homing-mode *keyword*

Description	Multi-homing mode of the EVPN bgp instance in a network-instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* multi-homing-mode *keyword*
Tree	multi-homing-mode
Default	network
Options	• network • access
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason for the bgp-instance being down

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Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled
- no-nexthop-address
- no-evi
- network-instance-oper-down
- no-vxlan-interface
- ethernet-segment-multiple-subinterfaces
- vxlan_interface_no_source_ip_address
- bgp-vpn-instance-oper-down
- no-mpls-label
- no-mcid
- no-local-attachment-circuit
- no-remote-attachment-circuit
- tag-set-not-resolved
- esi-label-required-in-ethernet-segment
- srv6-no-locator
- srv6-no-source-address
- srv6-no-sid
- arg-fe2-required-in-ethernet-segment

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description This leaf contains the operational state of bgp-instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

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Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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routes

Description Enter the routes context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes

Tree routes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description Enable the bridge-table context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table

Tree bridge-table

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inclusive-mcast

Description Enable the inclusive-mcast context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table inclusive-mcast

Tree inclusive-mcast

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertise *boolean*

Description If set to true an inclusive multicast route will be advertised in this evpn instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table inclusive-mcast advertise *boolean*

Tree advertise

Default true

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-l2-attributes-extended-community *boolean*

Description Enables advertisement and processing of the Layer-2 Attributes extended community on IMET routes

When set to true, EVPN Inclusive Multicast Ethernet Tag (IMET) routes advertised by this MAC-VRF BGP-EVPN instance include the Layer-2 Attributes extended community. On reception of IMET routes that carry this extended community, BGP imports the routes based on the import route-target as usual. The system then compares the received Layer-2 Attributes extended community against the locally configured values and processes only matching routes.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table inclusive-mcast advertise-l2-attributes-extended-community *boolean*

Tree advertise-l2-attributes-extended-community

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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originating-ip *(ipv4-address | ipv6-address)*

Description	The originating ip-address that the inclusive multicast route will be advertised with in this evpn instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table inclusive-mcast originating-ip *(ipv4-address | ipv6-address)*
Tree	originating-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-ip

Description	Enable the mac-ip context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table mac-ip
Tree	mac-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise *boolean*

Description	If set to true then local mac's and local mac-ip pairs will be advertised in this evpn instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table mac-ip advertise *boolean*
Tree	advertise
Default	true
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-arp-nd-extended-community *boolean*

Description ARP/ND extended community

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table mac-ip advertise-arp-nd-extended-community *boolean*

Tree advertise-arp-nd-extended-community

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(keyword | ipv4-address | ipv6-address)*

Description The ip-address that will be used as the bgp next-hop for all routes advertised in this evpn instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table next-hop *(keyword | ipv4-address | ipv6-address)*

Tree next-hop

Default use-system-ipv4-address

Options

- use-system-ipv4-address
- use-system-ipv6-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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vlan-aware-bundle-eth-tag *number*

Description Configures the Ethernet Tag ID to be encoded in the EVPN routes for control-plane interoperability mode with VLAN-aware bundle services.

When set to a non-zero value, all the EVPN routes advertised for the MAC-VRF will be advertised with this value into the ethernet-tag-id field of the routes.

On reception of EVPN routes with non-zero ethernet-tag-id, BGP will import the routes based on the import route-target as usual. However, the system checks the received ethernet-tag-id field and will process only those routes whose ethernet-tag-id match the local vlan-aware-bundle-eth-tag value.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes bridge-table vlan-aware-bundle-eth-tag *number*

Tree vlan-aware-bundle-eth-tag

Range 0 to 16777215

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table

Description Enable the route-table context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table

Tree route-table

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix

Description Enter the ip-prefix context

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix
Tree	ip-prefix
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-interface-ful *boolean*

Description	If set to true, the router advertises EVPN Interface-ful (EVPN-IFF) IP Prefix routes
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix advertise-interface-ful *boolean*
Tree	advertise-interface-ful
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anycast-multi-homing

Description	Configuration for EVPN Anycast for multi-homing L3 subnets
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix anycast-multi-homing
Tree	anycast-multi-homing
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *ipv4-address-unicast*

Description	The IP address of the Anycast VTEP for multi-homing L3 subnets

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix anycast-multi-homing ip-address *ipv4-address-unicast*
Tree	ip-address
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-interface-less-gateway-ip

Description	Enter the evpn-interface-less-gateway-ip context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-interface-less-gateway-ip
Tree	evpn-interface-less-gateway-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise

Description	Enable the advertise context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-interface-less-gateway-ip advertise
Tree	advertise
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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resolve

Description Enter the resolve context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-interface-less-gateway-ip resolve

Tree resolve

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable triggers the resolution of EVPN IFL routes GW-IP to EVPN-IFL-HOST routes

When set to enable, the router processes the GW-IP field in the EVPN-IFL routes, and tries to resolve the GW-IP to the next hops of the received EVPN-IFL-HOST (MAC/IP Advertisement routes with layer 3 information) routes that contain the GW-IP. If more than one EVPN-IFL-HOST route resolves the GW-IP of the EVPN-IFL route, the EVPN-IFL route is programmed with a next hop group that contains all the next hops of the EVPN-IFL-HOST routes. Weights are used to influence the load balancing when multiple EVPN-IFL-HOST routes resolving the IP Prefix come from the same next-hop.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-interface-less-gateway-ip resolve admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-ecmp-hash-buckets-per-next-hop-group *number*

Description Specifies the maximum number of ECMP hash buckets per next-hop-group

Weighted ECMP weights are normalized based on this number of hash buckets.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-interface-less-gateway-ip resolve max-ecmp-hash-buckets-per-next-hop-group *number*

Tree max-ecmp-hash-buckets-per-next-hop-group

Range 1 to 256

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-link-bandwidth

Description Enter the evpn-link-bandwidth context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth

Tree evpn-link-bandwidth

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise

Description Enable the advertise context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth advertise

Tree advertise

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-dynamic-weight *number*

Description	Determines the maximum weight to be advertised in the evpn-link-bandwidth extended community If weight 'dynamic' is configured, the actual advertised weight is the minimum of the number of BGP PE-CE paths for the prefix and the configured maximum weight.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth advertise maximum-dynamic-weight *number*
Tree	maximum-dynamic-weight
Range	1 to 128
Default	128
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *(number | keyword)*

Description	Determines the weight to be advertised in the evpn-link-bandwidth extended community If set to dynamic, the weight is dynamically set based on the number of BGP PE-CE paths for the IP Prefix that is advertised in an EVPN IP Prefix route. Alternatively, the weight can be set to a fixed integer value in the range 1..128. The dynamic weight only considers BGP PE-CE paths.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth advertise weight *(number | keyword)*
Tree	weight
Range	1 to 128
Default	dynamic

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Options
- dynamic

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weighted-ecmp

Description Enter the weighted-ecmp context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Setting enable triggers weighted ECMP programming for all elegible multipath EVPN IFL routes

When set to enable, the router processes the evpn-link-bandwidth extended community when installing an ECMP set for an EVPN IP-Prefix route in the ip-vrf route table. Flows to an IP Prefix received with a weight and a zero-ESI are sprayed based on the weight. If the EVPN IP Prefix route received with the weight has a non-zero ESI, the weight is divided into the number of PEs attached to the Ethernet Segment (and rounded up if the result is not an integer). The command also enables the weighted ECMP functionality for BGP CEs that are configured with the parameter evpn-link-bandwidth add-weight-to-received-bgp-routes <weight>.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth weighted-ecmp admin-state *keyword*

Tree admin-state

Default disable

Options
- enable

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- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-ecmp-hash-buckets-per-next-hop-group *number*

Description Specifies the maximum number of ECMP hash buckets per next-hop-group

Weighted ECMP weights are normalized based on this number of hash buckets.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table ip-prefix evpn-link-bandwidth weighted-ecmp max-ecmp-hash-buckets-per-next-hop-group *number*

Tree max-ecmp-hash-buckets-per-next-hop-group

Range 1 to 256

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-ip

Description Enter the mac-ip context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table mac-ip

Tree mac-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertise-gateway-mac *boolean*

Description If set to true in an ip-vrf where bgp-evpn is enabled, a MAC/IP route containing the gateway-MAC is advertised.

This gateway-MAC matches the MAC advertised along with the EVPN IFL routes type 5 for the ip-vrf network-instance. This advertisement is needed so that the EVPN IFL (Interface-Less) model in the ip-vrf can interoperate with a remote system working in EVPN IFF (Interface-ful) Unnumbered mode.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* routes route-table mac-ip advertise-gateway-mac *boolean*

Tree advertise-gateway-mac

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

supplementary-broadcast-domain

Description Enable the supplementary-broadcast-domain context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain

Tree supplementary-broadcast-domain

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-multicast-gateway

Description Configuration for EVPN multicast gateway functionality in EVPN OISM

This enables MEG (MVPN to EVPN) or PEG (PIM to EVPN Gateway) functionality in EVPN OISM networks.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway

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Tree	evpn-multicast-gateway
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

admin-state *keyword*

Description	Administrative state for the EVPN gateway functionality When enabled, the system will participate in EVPN gateway DR (Designated Router) election and will behave as a multicast gateway between MVPN/PIM and EVPN. The DR triggers the MEG/PEG First Hop and Last Hop actions on the router.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dr-election

Description	Enter the dr-election context DR election configuration
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election
Tree	dr-election
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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timers

Description	Enter the timers context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election timers
Tree	timers
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dr-activation-timer *number*

Description	Specifies the DR activation timer for the EVPN gateway The Designated Router (DR) activation timer determines for how long the router waits to run the DR election as a MEG or PEG Gateway. This gives some time to collect Inclusive Multicast Ethernet Tag routes from other MEG/PEG gateways to avoid running the DR election multiple times.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election timers dr-activation-timer *number*
Tree	dr-activation-timer
Range	0 to 100
Default	3
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dr-election-state

Description	Enter the dr-election-state context DR election configuration and state
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state
Tree	dr-election-state
Configurable	True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

algorithm

Description Enter the algorithm context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state algorithm

Tree algorithm

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-type *keyword*

Description Operational designated router election algorithm type for this PEG/MEG gateway

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state algorithm oper-type *keyword*

Tree oper-type

Options

- default
- preference
- manual

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dr-info

Description Enter the dr-info context

DR information for this PEG/MEG gateway

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info

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Tree	dr-info
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

computed-designated-router-candidates

Description	Enter the computed-designated-router-candidates context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info computed-designated-router-candidates
Tree	computed-designated-router-candidates
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

designated-router-candidate address *(ipv4-address | ipv6-address)*

Description	designated router PEG/MEG gateway candidates
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info computed-designated-router-candidates designated-router-candidate address *(ipv4-address | ipv6-address)*
Tree	designated-router-candidate
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

address *(ipv4-address | ipv6-address)*

Description	Enter the address context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info computed-designated-router-candidates designated-router-candidate address *(ipv4-address | ipv6-address)*
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

add-time *string*

Description	The date and time when the designated-router-candidate was added to the designated router candidate list
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info computed-designated-router-candidates designated-router-candidate address *(ipv4-address | ipv6-address)* add-time *string*
Tree	add-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

designated-router *boolean*

Description	Indicates if this designated-router-candidate is the designated-router.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info computed-designated-router-candidates designated-router-candidate address *(ipv4-address | ipv6-address)* designated-router *boolean*
Tree	designated-router
Default	false
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

designated-router-activation-start-time *string*

Description	Indicates the time at which the designated-router activation timer started
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info designated-router-activation-start-time *string*
Tree	designated-router-activation-start-time

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String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

designated-router-activation-time *number*

Description	Indicates the number of seconds for the activation timer to run, for this node to become the designated router
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info designated-router-activation-time *number*
Tree	designated-router-activation-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

designated-router-role-last-change *string*

Description	Indicates the time at which the designated-router role was changed
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway dr-election-state dr-info designated-router-role-last-change *string*
Tree	designated-router-role-last-change
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

gateway-type *keyword*

Description	Type of EVPN multicast gateway
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway gateway-type *keyword*
Tree	gateway-type

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Options
- peg
- peg-transit

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

non-dr-attract-traffic *boolean*

Description When enabled, allows a non-Designated Router to attract traffic

When set to true, the router triggers the advertisement of a wildcard SMET route that will attract the traffic from OISM sources, irrespective of the router being MEG/PEG DR. This can be used to speed up the convergence of the network in case of a DR change.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* supplementary-broadcast-domain evpn-multicast-gateway non-dr-attract-traffic *boolean*

Tree non-dr-attract-traffic

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vpws-attachment-circuits

Description Enable the vpws-attachment-circuits context

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits

Tree vpws-attachment-circuits

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local

Description Enter the local context

The local parameters of the VPWS

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local
Tree	local
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-attachment-circuit name *string*

Description	A local attachment circuit in the VPWS Each local attachment circuit is identified in EVPN with an Ethernet Tag that is advertised in the Auto Discovery per EVI route. Configurable on network instances of type vpws.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local local-attachment-circuit name *string*
Tree	local-attachment-circuit
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1
Min. Elements	1

name *string*

Description	The list of local attachment circuits in the network instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local local-attachment-circuit name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-point *reference*

Description	The connection-point associated to the local attachement circuit

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local local-attachment-circuit name *string* connection-point *reference*
Tree	connection-point
Reference	network-instance name *string* connection-point name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-tag *number*

Description	The Ethernet Tag ID advertised in the Auto Discovery per EVI route The Ethernet Tag ID identifies the local attachment circuit in the EVPN control plane.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local local-attachment-circuit name *string* ethernet-tag *number*
Tree	ethernet-tag
Range	0 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mpls-label *number*

Description	The ingress label allocated for EVPN VPWS traffic The ingress mpls label is advertised by the EVPN Auto-Discovery per EVI routes and it is expected on received EVPN packets for the VPWS network instance.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits local local-attachment-circuit name *string* ingress-mpls-label *number*
Tree	ingress-mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote

Description Enter the remote context

The remote parameters of the VPWS

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote

Tree remote

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-attachment-circuit name *string*

Description A remote attachment circuit in the VPWS

Each remote attachment circuit is identified in EVPN with an Ethernet Tag that is received in the Auto Discovery per EVI route from the remote PE. Configurable on network instances of type vpws.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string*

Tree remote-attachment-circuit

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

Min. Elements 1

name *string*

Description The list of remote attachment circuits in the network instance

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string*

String Length 1 to 32

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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connection-point *reference*

Description	The connection-point associated to the local attachement circuit
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* connection-point *reference*
Tree	connection-point
Reference	network-instance name *string* connection-point name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destinations

Description	Enter the destinations context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations
Tree	destinations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description	Enter the mpls context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls
Tree	mpls
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Description	Enter the destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP).
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-label *number*

Description	EVI label of the destination.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tunnel-id *number*

Description tunnel identitier of the destination.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of this evpn-mpls destination object (system allocated).

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* destination-index *number*

Tree destination-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the evpn-mpls destination is not programmed.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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es-destination esi *string*

Description	Enter the es-destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string*
Tree	es-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description	The 10-byte Ethernet Segment Identifier of the ethernet segment. ESI-0 or MAX-ESI values are not allowed.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Description	Add a list entry for destination
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP).

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Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-label *number*

Description EVI label of this next-hop.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description tunnel identitier of this next-hop.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* evi-label *number* tunnel-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of this evpn-mpls destination object (system allocated).

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* destination-index *number*

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Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the evpn-mpls destination is not programmed.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations mpls es-destination esi *string* not-programmed-reason *keyword*
Tree	not-programmed-reason
Options	• no-destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6

Description	Enter the srv6 context
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6
Tree	srv6
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* sid *string*

Description	Enter the destination list instance
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 destination tep *(ipv4-address | ipv6-address)* sid *string*
Tree	destination
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 destination tep *(ipv4-address | ipv6-address)* sid *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description	SRv6 Segment Identifier of the destination
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 destination tep *(ipv4-address | ipv6-address)* sid *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of this evpn-srv6 destination object (system allocated)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 destination tep *(ipv4-address | ipv6-address)* sid *string* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-programmed-reason *keyword*

Description The reason why the evpn-srv6 destination is not programmed

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 destination tep *(ipv4-address | ipv6-address)* sid *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

es-destination esi *string*

Description Enter the es-destination list instance

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string*

Tree es-destination

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description The 10-byte Ethernet Segment Identifier of the ethernet segment

ESI-0 or MAX-ESI values are not allowed

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination tep *(ipv4-address | ipv6-address)* sid *string*

Description	Add a list entry for destination
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *string*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description	SRv6 Segment Identifier of this next-hop
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of this evpn-mpls destination object (system allocated)

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Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the evpn-srv6 destination is not programmed
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* destinations srv6 es-destination esi *string* not-programmed-reason *keyword*
Tree	not-programmed-reason
Options	• no-destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-tag *number*

Description	The Ethernet Tag ID received in the Auto Discovery per EVI route The Ethernet Tag ID identifies the remote attachment circuit in the EVPN control plane.
Context	network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vpws-attachment-circuits remote remote-attachment-circuit name *string* ethernet-tag *number*
Tree	ethernet-tag
Range	0 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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vxlan-interface *reference*

Description Identifier of vxlan-interface used in this bgp-instance.

Context network-instance name *string* protocols bgp-evpn bgp-instance id *reference* vxlan-interface *reference*

Tree vxlan-interface

Reference network-instance name *string* vxlan-interface name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

optimized-inter-subnet-multicast-forwarding

Description Configuration for EVPN OISM functionality in 7250 IXR platforms

This command enables the use of the optimized inter-subnet multicast forwarding functionality in 7250 IXR platforms. An multicast-enabled SBD IRB interface cannot be attached to the IP-VRF network-instance unless this command is enabled. This command can only be enabled when PIM and IGMP or MLD are enabled on the IP-VRF network-instance.

Context network-instance name *string* protocols bgp-evpn optimized-inter-subnet-multicast-forwarding

Tree optimized-inter-subnet-multicast-forwarding

Configurable True

Platforms Supported on 7220 IXR-D2/D2L/D3/D3L/D4/D5

bgp-ipvpn

Description Top-level configuration and operational state for BGP IP Virtual Private Networks (IPVPN)

Context network-instance name *string* protocols bgp-ipvpn

Tree bgp-ipvpn

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bgp-instance id *reference*

Description	bgp ipvpn instances configured in net-instance
Context	network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference*
Tree	bgp-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

id *reference*

Description	Enter the id context
Context	network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference*
Reference	network-instance name *string* protocols bgp-vpn bgp-instance id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Configurable state of the bgp-ipvpn instance.
Context	network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dpath-domain-id *string*

Description D-PATH Domain ID of the received IPVPN route that is added to the D-PATH Attribute when the route is readvertised

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* dpath-domain-id *string*

Tree dpath-domain-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp *number*

Description The supported range of ECMP values for layer-3 ecmp.

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* ecmp *number*

Tree ecmp

Range 1 to 64

Default 1

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encapsulation-type *keyword*

Description Encap type of the bgp ipvpn instance.

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Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* encapsulation-type *keyword*

Tree encapsulation-type

Default mpls

Options
- mpls
- srv6

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* internal-tags

Tree internal-tags

Configurable True

Platforms Supported on 7215 IXS-A1, 7220 IXR-Dx, 7220 IXR-Hx, 7250 IXR-6/10/6e/10e/X1b/X3b

set-tag-set *reference*

Description Reference to a tag-set defined under routing-policy

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* internal-tags set-tag-set *reference*

Tree set-tag-set

Reference routing-policy tag-set name *string*

Configurable True

Platforms Supported on 7215 IXS-A1, 7220 IXR-Dx, 7220 IXR-Hx, 7250 IXR-6/10/6e/10e/X1b/X3b

Max. Elements 1

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mpls

Description Enable the mpls context

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls

Tree mpls

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mpls-label *number*

Description The ingress label allocated for Routed traffic

The ingress mpls label is advertised by the vpn route and it is expected on received routed packets.

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls ingress-mpls-label *number*

Tree ingress-mpls-label

Range 16 to 1048575

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description Enter the next-hop-resolution context

Options related to the resolution of IPv4 or IPv6 BGP next-hops to Tunnels

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution

Tree next-hop-resolution

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed tunnel types

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- bgp-next-hop-resolution-tunnel-type

  Base type for the types of tunnels that can be used by BGP for next-hop resolution

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

selection-attributes

Description Enter the selection-attributes context

Attributes for narrowing the selection of tunnels

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes

Tree selection-attributes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flex-algo

Description Enter the flex-algo context

Next-hop resolution constraints based on flexible algorithms

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes flex-algo

Tree flex-algo

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has the same algorithm as the route (set by policy)

If false, it is possible to select a tunnel that has a different algorithm than the route.

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes flex-algo mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

Next-hop resolution constraints based on internal tags

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes tag

Tree tag

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mandatory *boolean*

Description If true, a tunnel can resolve the next-hop only if it has all the same tags as the route

If false, it is possible to select a tunnel that has none or only some of the same tags as the route.

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* mpls next-hop-resolution selection-attributes tag mandatory *boolean*

Tree mandatory

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the bgp-instance being down

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled
- no-nexthop-address
- network-instance-oper-down
- bgp-vpn-instance-oper-down
- no-mpls-label
- tag-set-not-resolved
- srv6-no-locator
- srv6-no-source-address
- srv6-no-sid

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description This leaf contains the operational state of bgp-instance.

Context network-instance name *string* protocols bgp-ipvpn bgp-instance id *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

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This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-vpn

Description Top-level configuration and operational state for common bgp-ipvpn and bgp-evpn parameters

Context network-instance name *string* protocols bgp-vpn

Tree bgp-vpn

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allow-export

Description Allow re-export of EVPN IFL or VPN-IP routes

When this feature is enabled, received EVPN IFL routes or VPN-IP routes are re-exported to the configured BGP peers. In IP-VRF network instances that contain both a bgp-evpn and a bgp-ipvpn instance, EVPN IFL routes are automatically re-exported to the BGP-IPVPN instance without requiring this command. Similarly, IPVPN routes are automatically re-exported to the BGP-EVPN instance.

Context network-instance name *string* protocols bgp-vpn allow-export

Tree allow-export

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-paths

Description Enter the backup-paths context

Configuration of BGP VPN fast reroute

Context network-instance name *string* protocols bgp-vpn backup-paths

Tree backup-paths

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description Enter the ipv4-unicast context

Configuration of IPv4 unicast backup paths

Context network-instance name *string* protocols bgp-vpn backup-paths ipv4-unicast

Tree ipv4-unicast

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description Install a backup path for every NLRI in the address family, when a suitable one exists

Context network-instance name *string* protocols bgp-vpn backup-paths ipv4-unicast install *boolean*

Tree install

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-unicast

Description Enter the ipv6-unicast context

Configuration of IPv6 unicast backup paths

Context network-instance name *string* protocols bgp-vpn backup-paths ipv6-unicast

Tree ipv6-unicast

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install *boolean*

Description Install a backup path for every NLRI in the address family, when a suitable one exists

Context network-instance name *string* protocols bgp-vpn backup-paths ipv6-unicast install *boolean*

Tree install

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-instance id *number*

Description List of bgp-vpn instances configured in the network-instance. Only one instance allowed in the current release.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number*

Tree bgp-instance

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

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id *number*

Description	The index of the bgp-vpn instance
Context	network-instance name *string* protocols bgp-vpn bgp-instance id *number*
Range	1 to 2
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-policy *reference*

Description	Apply an export policy to advertised BGP routes
Context	network-instance name *string* protocols bgp-vpn bgp-instance id *number* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	14

import-policy *reference*

Description	Apply an import policy to received BGP routes
Context	network-instance name *string* protocols bgp-vpn bgp-instance id *number* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 14

oper-down-reason *keyword*

Description Reason for bgp-instance being down

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* oper-down-reason *keyword*

Tree oper-down-reason

Options

- no-loopback-address-or-rd
- no-autonomous-system-or-rt
- network-instance-oper-down
- bad-rd-format
- evpn-or-ipvpn-config-incomplete
- none

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher

Description Enter the route-distinguisher context

Route Distinguisher (RD) of the bgp-vpn instance.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-distinguisher

Tree route-distinguisher

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rd *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description Route Distinguisher (RD) in the bgp-vpn instance. When used for evpn and if not configured, the RD is auto-derived as <ip-address>:<evi> where 'ip-address' is the ipv4 address associated to the subinterface system0.0.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-distinguisher rd *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Tree rd

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher-origin *keyword*

Description Origin of the operational Route Distinguisher (RD) of the bgp-vpn instance.

'Auto-derived-from-evi' refers to an RD that is automatically allocated with the format <ip-address>:<evi> where 'ip-address' is the ipv4 address associated to the subinterface system0.0. 'Auto-derived-from-system-ip:0' refers to the RD for the EVPN Ethernet Segment routes that is automatically allocated with the format <ip-address>:0 where 'ip-address' is the ipv4 address associated to the subinterface system0.0. 'Manual' refers to an RD that is configured. 'None' indicates that the RD is neither configured nor auto-derived.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-distinguisher route-distinguisher-origin *keyword*

Tree route-distinguisher-origin

Options

- auto-derived-from-evi
- auto-derived-from-system-ip:0
- manual
- none

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target

Description Enter the route-target context

Route Target (RT) of the bgp-vpn instance.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-target

Tree route-target

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-route-target-origin *keyword*

Description Origin of the operational export Route Target (RT) of the bgp-vpn instance.

'Auto-derived-from-evi' refers to an RT that is automatically allocated with the format <asn>:<evi> where 'asn' is the autonomous-system-number configured in the network-instance default. 'Auto-derived-from-esi-bytes-1-6' refers to the ES-import RT for the EVPN Ethernet Segment routes that is derived from bytes 1 to 6 of the Ethernet Segment Identifier of the route. 'From-export-policy' refers to export RT(s) that are set on the export-policy. 'Manual' refers to an export RT that is configured. 'None' indicates that the export RT is neither configured nor auto-derived.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-target export-route-target-origin *keyword*

Tree export-route-target-origin

Options

- auto-derived-from-evi
- auto-derived-from-esi-bytes-1-6
- from-export-policy
- manual
- none

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-rt *(string | string | string | string | string | string | string | string | string | string | string)*

Description Export Route Target (RT) in the bgp-vpn instance. When used for evpn and if not configured, the RT is auto-derived with the format <asn>:<evi> where 'asn' is the autonomous-system configured in the network-instance default.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-target export-rt *(string | string | string | string | string | string | string | string | string | string | string)*

Tree export-rt

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-route-target-origin *keyword*

Description Origin of the operational import Route Target (RT) of the bgp-vpn instance.

'Auto-derived-from-evi' refers to an RT that is automatically allocated with the format <asn>:<evi> where 'asn' is the autonomous-system-number configured in the network-instance default. 'Auto-derived-from-esi-bytes-1-6' refers to the ES-import RT for the EVPN Ethernet Segment routes that is derived from bytes 1 to 6 of the Ethernet Segment Identifier of the route. 'From-import-policy' refers to import RT(s) that are set on the import-policy. 'Manual' refers to an import RT that is configured. 'None' indicates that the import RT is neither configured nor auto-derived.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-target import-route-target-origin *keyword*

Tree import-route-target-origin

Options

- auto-derived-from-evi
- auto-derived-from-esi-bytes-1-6
- from-import-policy
- manual
- none

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Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-rt *(string | string | string | string | string | string | string | string | string | string | string)*

Description Import Route Target (RT) in the bgp-vpn instance. When used for evpn and if not configured, the RT is auto-derived with the format <asn>:<evi> where 'asn' is the autonomous-system configured in the network-instance default.

Context network-instance name *string* protocols bgp-vpn bgp-instance id *number* route-target import-rt *(string | string | string | string | string | string | string | string | string | string | string)*

Tree import-rt

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

combined-ecmp

Description Combine BGP owners into the same ECMP set

When enabled, candidate BGP PE-CE routes and BGP VPN routes (EVPN IFL or VPN-IP) to the same prefix are combined into a single ECMP set. A single route with a combined next hop group is installed in the route table. If different BGP owners are combined and have different configured ecmp maximum values, the minimum of the maximum configured values is considered for the combined ECMP set.

Context network-instance name *string* protocols bgp-vpn combined-ecmp

Tree combined-ecmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-routes-dpath-domain-id *string*

Description Domain ID added to the Domain Path Attribute advertised for the IP-VRF local routes in BGP IPVPN/EVPN updates

Context network-instance name *string* protocols bgp-vpn local-routes-dpath-domain-id *string*

Tree local-routes-dpath-domain-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution-policy *reference*

Description Policy to evaluate whether the route or tunnel chosen to resolve each BGP next-hop is acceptable or not

The policy applies to all BGP EVPN and IPVPN routes imported into the network-instance, and covers both IPv4 next-hop addresses and IPv6 next-hop addresses.

Context network-instance name *string* protocols bgp-vpn next-hop-resolution-policy *reference*

Tree next-hop-resolution-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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gribi

Description Container for gRIBI configuration and state.

Context network-instance name *string* protocols gribi

Tree gribi

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable gRIBI support.

The enable setting only has an effect when the network-instance type is ip-vrf or default.

When this is set to disable all IP entries and next-hop-groups associated with the network-instance are deleted from the gRIBI server database and the recovery of this state depends on the gRIBI clients to re-signal all of the deleted entries. While in a disabled state, no entries are accepted for this network-instance. (This is the same behavior when the network-instance does not exist at all.)

Context network-instance name *string* protocols gribi admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-metric *number*

Description Set the route table metric to use for all gRIBI-created IPv4 and IPv6 routes

Context network-instance name *string* protocols gribi default-metric *number*

Tree default-metric

Default 1

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-preference *number*

Description	Lower values indicate a higher degree of preference when deciding the route to use from different protocols.
Context	network-instance name *string* protocols gribi default-preference *number*
Tree	default-preference
Range	0 to 255
Default	6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-ecmp-hash-buckets-per-next-hop-group *number*

Description	Specifies the maximum number of ECMP hash buckets per next-hop-group. An error is returned to any gRIBI client that attempts to program more than this number of next-hops in a single next-hop-group. Weighted ECMP weights are normalized based on this number of hash buckets.
Context	network-instance name *string* protocols gribi max-ecmp-hash-buckets-per-next-hop-group *number*
Tree	max-ecmp-hash-buckets-per-next-hop-group
Range	1 to 256
Default	256
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-routes *number*

Description Specifies the maximum number of gRIBI routes (sum of IPv4 and IPv6 entries).

A value of 0 signifies no limit.

Context network-instance name *string* protocols gribi maximum-routes *number*

Tree maximum-routes

Default 0

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of gRIBI with respect to programming of entries in this network network-instance

By default, even with no configuration, the state is up in all network-instances of type ip-vrf and default

Context network-instance name *string* protocols gribi oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

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Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igmp

Description Enable the igmp context

Context network-instance name *string* protocols igmp

Tree igmp

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the IGMP instance

Context network-instance name *string* protocols igmp admin-state *keyword*

Tree admin-state

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Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-count *number*

Description	The number of multicast groups which have been learned on this instance
Context	network-instance name *string* protocols igmp group-count *number*
Tree	group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of IGMP interfaces
Context	network-instance name *string* protocols igmp interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols igmp interface interface-name *string*
String Length	5 to 27
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable the IGMP protocol for this interface Used to administratively enable or disable the IGMP protocol on a routed subinterface
Context	network-instance name *string* protocols igmp interface interface-name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-count *number*

Description	The number of multicast groups which have been learned on this interface
Context	network-instance name *string* protocols igmp interface interface-name *string* group-count *number*
Tree	group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description	Apply an import policy. The lenght of the policy name should not exceed 32 charachters
Context	network-instance name *string* protocols igmp interface interface-name *string* import-policy *reference*

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Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-group-sources *number*

Description	MAX number of IGMP group/source combinations for this interface, 0 means no limit
Context	network-instance name *string* protocols igmp interface interface-name *string* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-groups *number*

Description	MAX number of IGMP Groups for this interface, 0 means no limit
Context	network-instance name *string* protocols igmp interface interface-name *string* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-sources *number*

Description	MAX number of IGMP sources per group for this interface, 0 means no limit
Context	network-instance name *string* protocols igmp interface interface-name *string* maximum-number-sources *number*

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Tree	maximum-number-sources
Range	1 to 512
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description	Enter the membership-groups context List of IGMP Membership information
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	Multicast address
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string*
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-type *keyword*

Description Enter the group-type context

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* group-type *keyword*

Tree group-type

Options

- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.
- bgp-smet

  This group entry was learned from a bgp SMET route.
- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igmp-compatibility-mode *keyword*

Description Compatibility with older version routers

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* igmp-compatibility-mode *keyword*

Tree igmp-compatibility-mode

Options

- 1
- 2
- 3

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reporter *(ipv4-address | ipv6-address)*

Description The last host address which has sent the report to join the multicast group

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Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* last-reporter *(ipv4-address | ipv6-address)*
Tree	last-reporter
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string*
Tree	source
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	Source address of multicast
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description	The time left before multicast group timeout
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string* expiry-time *number*
Tree	expiry-time

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Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-state *keyword*

Description	Traffic forwardeding state on this port
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string* forwarding-state *keyword*
Tree	forwarding-state
Options	• forward • block
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-type *keyword*

Description	Enter the source-type context
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string* source-type *keyword*
Tree	source-type
Options	• static This group entry was statically configured. • dynamic This group entry was learned by the protocol. • bgp-smet This group entry was learned from a bgp SMET route. • bgp-sync This group entry was learned from a bgp JOIN SYNC route.
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v1-host-timer *number*

Description	The time remaining until the local router will assume that there are no longer any version 1 members
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* v1-host-timer *number*
Tree	v1-host-timer
Units	seconds
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v2-host-timer *number*

Description The time remaining until the local router will assume that there are no longer any version 2 members

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* v2-host-timer *number*

Tree v2-host-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the IGMP interface. This simply tracks the operational state of the subinterface

Context network-instance name *string* protocols igmp interface interface-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

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Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-version *number*

Description The operational IGMP version on this interface

Context network-instance name *string* protocols igmp interface interface-name *string* oper-version *number*

Tree oper-version

Range 1 to 3

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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querier

Description Enter the querier context

Context network-instance name *string* protocols igmp interface interface-name *string* querier

Tree querier

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description The address of the IGMP Querier on the IP subnet to which this interface is attached

Context network-instance name *string* protocols igmp interface interface-name *string* querier address *string*

Tree address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description The time remaining before this querier is aged out

Context network-instance name *string* protocols igmp interface interface-name *string* querier expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp interface interface-name *string* querier up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-interval *number*

Description	Interval at which the router sends the IGMP membership queries
Context	network-instance name *string* protocols igmp interface interface-name *string* query-interval *number*
Tree	query-interval
Range	2 to 1024
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-last-member-interval *number*

Description	Interval at which Group-Specific-Query packets are transmitted
Context	network-instance name *string* protocols igmp interface interface-name *string* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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query-response-interval *number*

Description Time to wait to receive a response to the IGMP membership query from the host

Context network-instance name *string* protocols igmp interface interface-name *string* query-response-interval *number*

Tree query-response-interval

Range 1 to 1023

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-alert-check *boolean*

Description Enable or disable router alert checking for IGMP messages received on this interface

Context network-instance name *string* protocols igmp interface interface-name *string* router-alert-check *boolean*

Tree router-alert-check

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssm

Description Enter the ssm context

Container to configure Source specific multicast (SSM) options.

Context network-instance name *string* protocols igmp interface interface-name *string* ssm

Tree ssm

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mappings

Description Enter the mappings context

A list of source specific multicast (SSM) mappings

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings

Tree mappings

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description A Source Specific Multicast (SSM) mapping

This allows IGMP v2 hosts to be able to join in SSM environments by translating IGMP v2 reports into IGMP v3 reports. The request in an IGMP v2 join is sent toward the source address found by matching the multicast address.

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings group-range start *string* end *string*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *string*

Description Start of the group range.

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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end *string*

Description End of the group range.

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings group-range start *string* end *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

source *string*

Description Multicast source address

Context network-instance name *string* protocols igmp interface interface-name *string* ssm mappings group-range start *string* end *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-membership-groups

Description Enter the static-membership-groups context

Container to configure static <S,G>s for this interface

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Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups

Tree static-membership-groups

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description Enter the group-range list instance

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *string*

Description Start of the group range.

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *string*

Description End of the group range.

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Multicast source address

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

starg

Description any source address (*,G)

Context network-instance name *string* protocols igmp interface interface-name *string* static-membership-groups group-range start *string* end *string* starg

Tree starg

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Global IGMP statistics

Context network-instance name *string* protocols igmp interface interface-name *string* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error

Description Enter the error context

Error message statistics

Context network-instance name *string* protocols igmp interface interface-name *string* statistics error

Tree error

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-encoding *number*

Description Badly encoded

Context network-instance name *string* protocols igmp interface interface-name *string* statistics error bad-encoding *number*

Tree bad-encoding

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bad-length *number*

Description	Bad length
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error bad-length *number*
Tree	bad-length
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy-drops *number*

Description	Number of times we matched the host IP address or group or source addresses specified in the import policy.
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error import-policy-drops *number*
Tree	import-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-scope *number*

Description	Link-local scope multicast group address
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error local-scope *number*
Tree	local-scope
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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missing-router-alert *number*

Description	Router alert flag is not set
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error missing-router-alert *number*
Tree	missing-router-alert
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-local *number*

Description	Non-local sender source IP address
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error non-local *number*
Tree	non-local
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-of-memory-drops *number*

Description	Number of times a join is dropped because we ran out of memory
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error out-of-memory-drops *number*
Tree	out-of-memory-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reached-maximum-number-group-sources *number*

Description	Number of times a join is dropped because we reached the maximum number group-source combinations.
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error reached-maximum-number-group-sources *number*
Tree	reached-maximum-number-group-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reached-maximum-number-groups *number*

Description	Number of times a join is dropped because we reached the maximum number of groups.
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error reached-maximum-number-groups *number*
Tree	reached-maximum-number-groups
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reached-maximum-number-sources *number*

Description	Number of times a join is dropped because we reached the maximum number of sources per group.
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error reached-maximum-number-sources *number*
Tree	reached-maximum-number-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved-scope *number*

Description	Reserved scope multicast group address
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error reserved-scope *number*
Tree	reserved-scope
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-type *number*

Description	Unknown type
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wrong-version *number*

Description	Wrong version
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics error wrong-version *number*
Tree	wrong-version
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-states

Description Enter the multicast-states context

Multicast state count for this network instance

Context network-instance name *string* protocols igmp interface interface-name *string* statistics multicast-states

Tree multicast-states

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-group-entries *number*

Description The number of (S,G)s

Context network-instance name *string* protocols igmp interface interface-name *string* statistics multicast-states source-group-entries *number*

Tree source-group-entries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-group-entries *number*

Description The number of (*,G)s

Context network-instance name *string* protocols igmp interface interface-name *string* statistics multicast-states star-group-entries *number*

Tree star-group-entries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description Enter the received context

Received message statistics

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received

Tree received

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drops *number*

Description Total number of dropped packets

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received drops *number*

Tree drops

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

general-queries *number*

Description General Queries

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received general-queries *number*

Tree general-queries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics received group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics received group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaves *number*

Description	Leaves
Context	network-instance name *string* protocols igmp interface interface-name *string* statistics received leaves *number*
Tree	leaves
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v1-reports *number*

Description V1 Reports

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received v1-reports *number*

Tree v1-reports

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v2-reports *number*

Description V2 Reports

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received v2-reports *number*

Tree v2-reports

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v3-reports *number*

Description V3 Reports

Context network-instance name *string* protocols igmp interface interface-name *string* statistics received v3-reports *number*

Tree v3-reports

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description Enter the transmitted context

Transmit message statistics

Context network-instance name *string* protocols igmp interface interface-name *string* statistics transmitted

Tree transmitted

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

errors *number*

Description Transmission Errors

Context network-instance name *string* protocols igmp interface interface-name *string* statistics transmitted errors *number*

Tree errors

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

general-queries *number*

Description General Queries

Context network-instance name *string* protocols igmp interface interface-name *string* statistics transmitted general-queries *number*

Tree general-queries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-queries *number*

Description Group Specific Queries

Context network-instance name *string* protocols igmp interface interface-name *string* statistics transmitted group-queries *number*

Tree group-queries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-source-queries *number*

Description Group and Source Specific Queries

Context network-instance name *string* protocols igmp interface interface-name *string* statistics transmitted group-source-queries *number*

Tree group-source-queries

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subnet-check *boolean*

Description This command enables subnet checking for IGMP messages received on this interface

All IGMP packets with a source address that is not in the local subnet are dropped.

Context network-instance name *string* protocols igmp interface interface-name *string* subnet-check *boolean*

Tree subnet-check

Default true

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description	IGMP Version
Context	network-instance name *string* protocols igmp interface interface-name *string* version *number*
Tree	version
Range	1 to 3
Default	3
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description	Enter the membership-groups context List of IGMP Membership information
Context	network-instance name *string* protocols igmp membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols igmp membership-groups group group *string*
Tree	group
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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blocked-interface interface-name *string*

Description	Add a list entry for blocked-interface
Context	network-instance name *string* protocols igmp membership-groups group group *string* source source *string* blocked-interface interface-name *string*
Tree	blocked-interface
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols igmp membership-groups group group *string* source source *string* blocked-interface interface-name *string*
String Length	5 to 27
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-interface interface-name *string*

Description	Add a list entry for forwarding-interface
Context	network-instance name *string* protocols igmp membership-groups group group *string* source source *string* forwarding-interface interface-name *string*
Tree	forwarding-interface
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string* forwarding-interface interface-name *string*

String Length 5 to 27

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Used to report operational state of the IGMP instance

Context network-instance name *string* protocols igmp oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

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Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-interval *number*

Description Interval at which the router sends the IGMP membership queries

Context network-instance name *string* protocols igmp query-interval *number*

Tree query-interval

Range 2 to 1024

Default 125

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-last-member-interval *number*

Description Interval at which Group-Specific-Query packets are transmitted

Context network-instance name *string* protocols igmp query-last-member-interval *number*

Tree query-last-member-interval

Range 1 to 1023

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Default	1
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-response-interval *number*

Description	Time to wait to receive a response to the IGMP membership query from the host
Context	network-instance name *string* protocols igmp query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Default	10
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

robust-count *number*

Description	Tune IGMP robustness to allow for expected packet loss The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased.
Context	network-instance name *string* protocols igmp robust-count *number*
Tree	robust-count
Range	2 to 10
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ssm

Description Enter the ssm context

Container to configure Source specific multicast (SSM) options.

Context network-instance name *string* protocols igmp ssm

Tree ssm

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mappings

Description Enter the mappings context

A list of source specific multicast (SSM) mappings

Context network-instance name *string* protocols igmp ssm mappings

Tree mappings

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description A Source Specific Multicast (SSM) mapping

This allows IGMP v2 hosts to be able to join in SSM environments by translating IGMP v2 reports into IGMP v3 reports. The request in an IGMP v2 join is sent toward the source address found by matching the multicast address.

Context network-instance name *string* protocols igmp ssm mappings group-range start *string* end *string*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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start *string*

Description Start of the group range.

Context network-instance name *string* protocols igmp ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *string*

Description End of the group range.

Context network-instance name *string* protocols igmp ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols igmp ssm mappings group-range start *string* end *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

source *string*

Description Multicast source address

Context network-instance name *string* protocols igmp ssm mappings group-range start *string* end *string* source source *string*

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols igmp statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context
Context	network-instance name *string* protocols igmp trace-options
Tree	trace-options
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace

Description	Enter the trace context Tracing parameter flags
Context	network-instance name *string* protocols igmp trace-options trace
Tree	trace
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface

Description Enable tracing interface events

Context network-instance name *string* protocols igmp trace-options trace interface

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all

Description Trace for all interfaces

Context network-instance name *string* protocols igmp trace-options trace interface all

Tree all

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Trace for interface with this name

Context network-instance name *string* protocols igmp trace-options trace interface name *reference*

Tree name

Reference network-instance name *string* protocols igmp interface interface-name *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet

Description Trace IGMP Packet types Only one type can be enabled at a time

Context network-instance name *string* protocols igmp trace-options trace packet

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Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description	Enable interface filter for packets
Context	network-instance name *string* protocols igmp trace-options trace packet interface
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all

Description	Trace for all interfaces
Context	network-instance name *string* protocols igmp trace-options trace packet interface all
Tree	all
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	Trace for interface with this name
Context	network-instance name *string* protocols igmp trace-options trace packet interface name *reference*
Tree	name
Reference	network-instance name *string* protocols igmp interface interface-name *string*
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols igmp trace-options trace packet modifier *keyword*

Tree modifier

Default egress-ingress-and-dropped

Options

- dropped

  Enable tracing for the packets which are dropped
- ingress-and-dropped

  Enable tracing for the packets which are sent or received
- egress-ingress-and-dropped

  Enable tracing for the packets which are sent, received or dropped

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context network-instance name *string* protocols igmp trace-options trace packet type *keyword*

Tree type

Options

- all

  Enable tracing of all IGMP packets
- query

  Enable tracing of IGMP Query packets
- v1-report

  Enable tracing of IGMP version 1 Report packets
- v2-report

  Enable tracing of IGMP version 2 Report packets

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- v2-leave

  Enable tracing of IGMP version 2 Leave packets
- v3-report

  Enable tracing of IGMP version 3 Report packets

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description Enter the version context

Context network-instance name *string* protocols igmp version

Tree version

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igmp-snooping

Description Enable the igmp-snooping context

Context network-instance name *string* protocols igmp-snooping

Tree igmp-snooping

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

admin-state *keyword*

Description Administratively enable or disable the IGMP instance

Context network-instance name *string* protocols igmp-snooping admin-state *keyword*

Tree admin-state

Default disable

Options

- enable

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- disable

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface interface-name *string*

Description List of IGMP interfaces

Context network-instance name *string* protocols igmp-snooping interface interface-name *string*

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols igmp-snooping interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

fast-leave *boolean*

Description Allow IGMP fast leave processing

When enabled, the multicast state is removed immediately upon receiving an IGMP leave message.

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* fast-leave *boolean*

Tree fast-leave

Default false

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

import-policy *reference*

Description	Apply an import policy. The lenght of the policy name should not exceed 32 charachters.
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-mrouter-port *boolean*

Description	Interface is a multicast router port
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* is-mrouter-port *boolean*
Tree	is-mrouter-port
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

maximum-number-group-sources *number*

Description	Maximum number of IGMP group/source combinations for this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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maximum-number-groups *number*

Description	Maximum number of IGMP Groups for this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

maximum-number-sources *number*

Description	Maximum number of IGMP sources per group for this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 512
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-group-count *number*
Tree	membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context

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List of IGMP Membership information

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups

Tree membership-groups

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string*

Tree group

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address.

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-type *keyword*

Description Enter the group-type context

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* group-type *keyword*

Tree group-type

Options

- static

  This group entry was statically configured.

- dynamic

  This group entry was learned by the protocol.

- bgp-smet

  This group entry was learned from a bgp SMET route.

- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

igmp-compatibility-mode *keyword*

Description Compatibility with older version routers

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* igmp-compatibility-mode *keyword*

Tree igmp-compatibility-mode

Options

- 1
- 2
- 3

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

forwarding-state *keyword*

Description Traffic forwardeding state on this port

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string* forwarding-state *keyword*

Tree forwarding-state

Options

- forward
- block

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-type *keyword*

Description Enter the source-type context

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string* source-type *keyword*

Tree source-type

Options

- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.

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- bgp-smet

  This group entry was learned from a bgp SMET route.

- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-host-timer *number*

Description The time remaining until the local router will assume that there are no longer any version 1 members

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Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* v1-host-timer *number*
Tree	v1-host-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-host-timer *number*

Description	The time remaining until the local router will assume that there are no longer any version 2 members
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* v2-host-timer *number*
Tree	v2-host-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mrouter-port *boolean*

Description	Operate port as a multicast router port
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* mrouter-port *boolean*
Tree	mrouter-port
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-interval *number*

Description	Interval at which the router sends the IGMP membership queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* query-interval *number*

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Tree	query-interval
Range	2 to 1024
Default	125
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-last-member-interval *number*

Description	Interval at which Group-Specific-Query packets are transmitted When used along with EVPN multi-homing, the result of this value multipled by the interface robust-count must be a value equal to or less than 25.5 seconds. This is due to the fact that the maximum response time field in the EVPN Multicast Leave Synch route has a limit of 255 units of 1/10 second, and this field encodes the result of [(query-last-member-interval* 10) * robust-count]. If the result of that operation is greater than 255, the maximum response time in the EVPN Multicast Leave Synch route is still 255.
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 5
Default	1
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-response-interval *number*

Description	Time to wait to receive a response to the IGMP membership query from the host
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Default	10
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	Tune IGMP robustness to allow for expected packet loss The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased. When used along with EVPN multi-homing, the result of this value multipled by the interface query-last-member-interval must be a value equal to or less than 25.5 seconds. This is due to the fact that the maximum response time field in the EVPN Multicast Leave Synch route has a limit of 255 units of 1/10 second, and this field encodes the result of [(query-last-member-interval* 10) * robust-count]. If the result of that operation is greater than 255, the maximum response time in the EVPN Multicast Leave Synch route is still 255.
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* robust-count *number*
Tree	robust-count
Range	2 to 10
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

router-alert-check *boolean*

Description	Enable or disable router alert checking for IGMP messages received on this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* router-alert-check *boolean*
Tree	router-alert-check
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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send-queries *boolean*

Description	Generate IGMP general queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* send-queries *boolean*
Tree	send-queries
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

static-membership-groups

Description	Enter the static-membership-groups context Container to configure static <S,G>s for this interface.
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups
Tree	static-membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Enter the group list instance
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	group address.

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Context network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Multicast source address.

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

starg

Description any source address (*,G)

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* static-membership-groups group group *string* starg

Tree starg

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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statistics

Description Enter the statistics context

IGMP sub-interface statistics

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

error

Description Enter the error context

Error message statistics

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error

Tree error

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bad-encoding *number*

Description Badly encoded packets

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error bad-encoding *number*

Tree bad-encoding

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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bad-igmp-checksum *number*

Description	Number of times a packet is discarded because of a bad IGMP header checksum
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error bad-igmp-checksum *number*
Tree	bad-igmp-checksum
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bad-length *number*

Description	Bad length
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error bad-length *number*
Tree	bad-length
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-bgp-join-sync *number*

Description	Bgp join sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error discarded-bgp-join-sync *number*
Tree	discarded-bgp-join-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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discarded-bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error discarded-bgp-leave-sync *number*
Tree	discarded-bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

import-policy-drops *number*

Description	Number of times the host IP address or group or source IP addresses specified in the import policy are matched
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error import-policy-drops *number*
Tree	import-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-scope *number*

Description	Link-local scope multicast group address
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error local-scope *number*
Tree	local-scope
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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missing-router-alert *number*

Description	Router alert flag is not set
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error missing-router-alert *number*
Tree	missing-router-alert
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

out-of-memory-discarded-packets *number*

Description	Number of times a join is discarded because the router ran out of memory
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error out-of-memory-discarded-packets *number*
Tree	out-of-memory-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

reached-maximum-number-group-sources *number*

Description	Number of times a join is discarded because the maximum number of group-source combinations is reached
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error reached-maximum-number-group-sources *number*
Tree	reached-maximum-number-group-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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reached-maximum-number-groups *number*

Description	Number of times a join is discarded because the maximum number of groups is reached
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error reached-maximum-number-groups *number*
Tree	reached-maximum-number-groups
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

reached-maximum-number-sources *number*

Description	Number of times a join is discarded because the maximum number of sources per group is reached
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error reached-maximum-number-sources *number*
Tree	reached-maximum-number-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

send-query-configured-discarded-packets *number*

Description	Number of times a query is discarded because send-queries is configured in the sub-interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error send-query-configured-discarded-packets *number*
Tree	send-query-configured-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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unknown-type *number*

Description	Unknown type
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

wrong-version *number*

Description	Wrong version
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error wrong-version *number*
Tree	wrong-version
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

zero-source-ip-address *number*

Description	Number of times a packet is discarded because it has a zero source IP address
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics error zero-source-ip-address *number*
Tree	zero-source-ip-address
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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forwarded

Description	Enter the forwarded context Forward message statistics
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded
Tree	forwarded
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

error-packets *number*

Description	Forwarding Errors
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded error-packets *number*
Tree	error-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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unknown-type *number*

Description	Unknown IGMP types
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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v3-reports *number*

Description	V3 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics forwarded v3-reports *number*
Tree	v3-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

multicast-states

Description	Enter the multicast-states context Multicast state count for this network instance
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics multicast-states
Tree	multicast-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-group-entries *number*

Description	The number of (S,G)s
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics multicast-states source-group-entries *number*
Tree	source-group-entries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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star-group-entries *number*

Description	The number of (*,G)s
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics multicast-states star-group-entries *number*
Tree	star-group-entries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

received

Description	Enter the received context Received message statistics
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-join-sync *number*

Description	Bgp join sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received bgp-join-sync *number*
Tree	bgp-join-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received bgp-leave-sync *number*
Tree	bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-packets *number*

Description	Total number of discarded IGMP packets
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received discarded-packets *number*
Tree	discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v3-reports *number*

Description	V3 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics received v3-reports *number*
Tree	v3-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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transmitted

Description	Enter the transmitted context Transmit message statistics
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted
Tree	transmitted
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-join-sync *number*

Description	Bgp join sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted bgp-join-sync *number*
Tree	bgp-join-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted bgp-leave-sync *number*
Tree	bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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error-packets *number*

Description	Transmission error IGMP packets
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted error-packets *number*
Tree	error-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v3-reports *number*

Description	V3 Reports
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics transmitted v3-reports *number*
Tree	v3-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

version *number*

Description	IGMP Version
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* version *number*
Tree	version
Range	1 to 3
Default	3
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols igmp-snooping membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols igmp-snooping membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address
Context	network-instance name *string* protocols igmp-snooping membership-groups group group *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols igmp-snooping membership-groups group group *string* source source *string*
Tree	source
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description	Source address of multicast
Context	network-instance name *string* protocols igmp-snooping membership-groups group group *string* source source *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

multicast-routers address *string*

Description	Enter the multicast-router list instance
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string*
Tree	multicast-routers
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

address *string*

Description	The source IP address used by queries sent out by this multicast router
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description	The time remaining before this multicast router is aged out
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* expiry-time *number*

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Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

igmp-v3-states

Description	Enter the igmp-v3-states context
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* igmp-v3-states
Tree	igmp-v3-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-query-interval *number*

Description	The General Query Interval used by this multicast router
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* igmp-v3-states general-query-interval *number*
Tree	general-query-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-response-interval *number*

Description	The General Query Response interval used by this multicast router
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* igmp-v3-states general-response-interval *number*
Tree	general-response-interval
Units	seconds
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	The Robust Count value used by this multicast router
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* igmp-v3-states robust-count *number*
Tree	robust-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface *string*

Description	Interface behind which this multicast router is located
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* interface *string*
Tree	interface
String Length	5 to 27
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time since this multicast router has been known in this service
Context	network-instance name *string* protocols igmp-snooping multicast-routers address *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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version *number*

Description The version of the protocol that is sent by this multicast router

Context network-instance name *string* protocols igmp-snooping multicast-routers address *string* version *number*

Tree version

Range 1 to 3

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-state *keyword*

Description Used to report operational state of the IGMP instance.

Context network-instance name *string* protocols igmp-snooping oper-state *keyword*

Tree oper-state

Options

- up
  Component or process is operational
- down
  Component or process is not operational
- empty
  Component slot is empty
- downloading
  Component is downloading image into memory
- booting
  Component is booting downloaded image
- starting
  Component image operational, application processes starting
- failed
  Component or process has failed
- synchronizing
  Component is currently being synchronized
- upgrading
  Component is currently being upgraded
- low-power
  Component is offline due to insufficient system power

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- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-evpn-membership-group-count *number*

Description The number of multicast groups proxy-evpn-membership-groups

Context network-instance name *string* protocols igmp-snooping proxy-evpn-membership-group-count *number*

Tree proxy-evpn-membership-group-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-evpn-membership-groups

Description Enter the proxy-evpn-membership-groups context

EVPN Proxy Database created for the network-instance

The content of this table is used by the router to proxy the reports towards the remote PEs via BGP EVPN SMET (Selective Multicast Ethernet Tag) routes .

Context network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups

Tree proxy-evpn-membership-groups

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string*

Tree group

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* source source *string*
Tree	source
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description	Source address of multicast
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* source source *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* source source *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-support *boolean*

Description	IGMP Version 1 is supported
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* v1-support *boolean*
Tree	v1-support
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-support *boolean*

Description	IGMP Version 2 is supported
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* v2-support *boolean*
Tree	v2-support
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v3-support *boolean*

Description	IGMP Version 3 is supported
Context	network-instance name *string* protocols igmp-snooping proxy-evpn-membership-groups group group *string* v3-support *boolean*

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Tree	v3-support
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols igmp-snooping proxy-membership-group-count *number*
Tree	proxy-membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-membership-groups

Description	Enter the proxy-membership-groups context Proxy Database created for the network-instance The content of this table is used by the router to proxy the reports towards the Querier, when the Querier is attached to a sub-interface.
Context	network-instance name *string* protocols igmp-snooping proxy-membership-groups
Tree	proxy-membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string*
Tree	group
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string* source source *string*

Tree source

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols igmp-snooping proxy-membership-groups group group *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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querier

Description Enter the querier context

Context network-instance name *string* protocols igmp-snooping querier

Tree querier

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

address *string*

Description The source IP address used by queries sent out by this multicast router

Context network-instance name *string* protocols igmp-snooping querier address *string*

Tree address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time remaining before this multicast router is aged out

Context network-instance name *string* protocols igmp-snooping querier expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

igmp-v3-states

Description Enter the igmp-v3-states context

Context network-instance name *string* protocols igmp-snooping querier igmp-v3-states

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Tree	igmp-v3-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-query-interval *number*

Description	The General Query Interval used by this multicast router
Context	network-instance name *string* protocols igmp-snooping querier igmp-v3-states general-query-interval *number*
Tree	general-query-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-response-interval *number*

Description	The General Query Response interval used by this multicast router
Context	network-instance name *string* protocols igmp-snooping querier igmp-v3-states general-response-interval *number*
Tree	general-response-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	The Robust Count value used by this multicast router
Context	network-instance name *string* protocols igmp-snooping querier igmp-v3-states robust-count *number*
Tree	robust-count
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface *string*

Description	Interface behind which this multicast router is located
Context	network-instance name *string* protocols igmp-snooping querier interface *string*
Tree	interface
String Length	5 to 27
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time since this multicast router has been known in this service
Context	network-instance name *string* protocols igmp-snooping querier up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

version *number*

Description	The version of the protocol that is sent by this multicast router
Context	network-instance name *string* protocols igmp-snooping querier version *number*
Tree	version
Range	1 to 3
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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query-interval *number*

Description	Interval at which the router sends the IGMP membership queries
Context	network-instance name *string* protocols igmp-snooping query-interval *number*
Tree	query-interval
Range	1 to 65535
Default	125
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-source-address *string*

Description	Source IP address used when generating IGMP queries
Context	network-instance name *string* protocols igmp-snooping query-source-address *string*
Tree	query-source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

report-source-address *string*

Description	Source IP address used when generating IGMP reports
Context	network-instance name *string* protocols igmp-snooping report-source-address *string*
Tree	report-source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	Configures the IGMP robustness to allow for the expected IGMP packet loss

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The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased.

Context network-instance name *string* protocols igmp-snooping robust-count *number*

Tree robust-count

Range 1 to 255

Default 2

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

Context network-instance name *string* protocols igmp-snooping statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

trace-options

Description Enter the trace-options context

Context network-instance name *string* protocols igmp-snooping trace-options

Tree trace-options

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

trace

Description Enter the trace context

Tracing parameter flags

Context network-instance name *string* protocols igmp-snooping trace-options trace

Tree trace

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

packet

Description	Trace IGMP Packet types
Context	network-instance name *string* protocols igmp-snooping trace-options trace packet
Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface interface-name *string*

Description	List of interfaces to trace
Context	network-instance name *string* protocols igmp-snooping trace-options trace packet interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B
Max. Elements	8

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols igmp-snooping trace-options trace packet interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols igmp-snooping trace-options trace packet modifier *keyword*

Tree modifier

Options

- dropped

  Enable tracing for the packets which are dropped

- ingress-and-dropped

  Enable tracing for the packets which are sent or received

- egress-ingress-and-dropped

  Enable tracing for the packets which are sent, received or dropped

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-mac source-mac *string*

Description List of source mac addresses to trace

Context network-instance name *string* protocols igmp-snooping trace-options trace packet source-mac source-mac *string*

Tree source-mac

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

Max. Elements 8

source-mac *string*

Description Enter the source-mac context

Context network-instance name *string* protocols igmp-snooping trace-options trace packet source-mac source-mac *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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transmitted-bgp-smet-routes *number*

Description	Transmitted BGP SMET routes
Context	network-instance name *string* protocols igmp-snooping transmitted-bgp-smet-routes *number*
Tree	transmitted-bgp-smet-routes
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*

Description	Enter the vxlan-destination list instance
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*
Tree	vxlan-destination
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vtep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vni *number*

Description	VXLAN Network Identifier of the destination.
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*
Range	1 to 16777215

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

index *number*

Description	the next-hop-group-id (system allocated) for resolving the VXLAN termination endpoint
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* index *number*
Tree	index
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

is-evpn-proxy *boolean*

Description	vxlan-interface supports evpn-proxy
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-evpn-proxy *boolean*
Tree	is-evpn-proxy
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

is-mrouter-port *boolean*

Description	vxlan-interface is a multicast router port
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-mrouter-port *boolean*
Tree	is-mrouter-port
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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is-sbd *boolean*

Description	vxlan-interface is a supplementary broadcast domain
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-sbd *boolean*
Tree	is-sbd
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-group-count *number*
Tree	membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context List of IGMP Membership information
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership

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Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string*

Tree group

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address.

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

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Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-type *keyword*

Description Enter the group-type context

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* group-type *keyword*

Tree group-type

Options

- static

  This group entry was statically configured.

- dynamic

  This group entry was learned by the protocol.

- bgp-smet

  This group entry was learned from a bgp SMET route.

- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

igmp-compatibility-mode *keyword*

Description Compatibility with older version routers

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* igmp-compatibility-mode *keyword*

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Tree igmp-compatibility-mode

Options
- 1
- 2
- 3

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* expiry-time *number*

Tree expiry-time

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Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

forwarding-state *keyword*

Description	Traffic forwardeding state on this port
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* forwarding-state *keyword*
Tree	forwarding-state
Options	• forward • block
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-type *keyword*

Description	Enter the source-type context
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* source-type *keyword*
Tree	source-type
Options	• static This group entry was statically configured. • dynamic This group entry was learned by the protocol. • bgp-smet This group entry was learned from a bgp SMET route. • bgp-sync This group entry was learned from a bgp JOIN SYNC route.
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-host-timer *number*

Description	The time remaining until the local router will assume that there are no longer any version 1 members
Context	network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* v1-host-timer *number*
Tree	v1-host-timer
Units	seconds
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-host-timer *number*

Description The time remaining until the local router will assume that there are no longer any version 2 members

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* v2-host-timer *number*

Tree v2-host-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-down-reason *keyword*

Description The reason for the vxlan-destination being down in the network-instance

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* oper-down-reason *keyword*

Tree oper-down-reason

Options

- sbd-vxlan-destination-present
- non-sbd-vxlan-destination-present

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-state *keyword*

Description Operational state of the vxlan-destination

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

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vxlan-interface statistics

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-smet *number*

Description Total number of discarded smet routes

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics discarded-smet *number*

Tree discarded-smet

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

received-smet *number*

Description Total number of received smet routes

Context network-instance name *string* protocols igmp-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics received-smet *number*

Tree received-smet

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

isis

Description Top-level configuration and operational state for Intermediate System to Intermediate System (ISIS)

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Context	network-instance name *string* protocols isis
Tree	isis
Configurable	True
Platforms	Supported on all platforms

dynamic-label-block *reference*

Description	Reference to a dynamic label block Configuration of this label block is mandatory in order to enable segment routing MPLS (SR-MPLS) in IS-IS. Dynamic adjacency SID labels come from this label block. This label block is not advertised as an SRLB in the router capabilities TLV.
Context	network-instance name *string* protocols isis dynamic-label-block *reference*
Tree	dynamic-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block-status *keyword*

Description	Status of the label block. The label block may show as unavailable if there is pending cleanup.
Context	network-instance name *string* protocols isis dynamic-label-block-status *keyword*
Tree	dynamic-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance name *string*

Description	List of IS-IS protocol instances associated with this network-instance

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Multiple IS-ISIS instances are supported

Context network-instance name *string* protocols isis instance name *string*

Tree instance

Configurable True

Platforms Supported on all platforms

name *string*

Description The name of the IS-IS instance

Context network-instance name *string* protocols isis instance name *string*

String Length 1 to 255

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Used to administratively enable or disable the IS-IS instance

Context network-instance name *string* protocols isis instance name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

attached-bit

Description Enter the attached-bit context

This container provides option for handling the ATTached bit in L1 LSPs

Context network-instance name *string* protocols isis instance name *string* attached-bit

Tree attached-bit

Configurable True

Platforms Supported on all platforms

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ignore *boolean*

Description When set to true, if the attached bit is set on an incoming Level 1 LSP, the local system ignores it. In this case the local system does not set a default route to the L1L2 router advertising the PDU with the attached bit set.

Context network-instance name *string* protocols isis instance name *string* attached-bit ignore *boolean*

Tree ignore

Default false

Configurable True

Platforms Supported on all platforms

suppress *boolean*

Description When set to true, if the local IS acts as a L1L2 router, then the attached bit is not advertised in locally generated L1 LSPs.

Context network-instance name *string* protocols isis instance name *string* attached-bit suppress *boolean*

Tree suppress

Default false

Configurable True

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container for specifying authentication options that apply to the entire IS-IS instance or to an entire level.

The settings in this container only apply to PDUs without an authentication behavior specified at a more granular level.

Context network-instance name *string* protocols isis instance name *string* authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

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csnp-authentication

Description Enter the csnp-authentication context

Container with options to control the authentication of CSNP PDUs

Context network-instance name *string* protocols isis instance name *string* authentication csnp-authentication

Tree csnp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* authentication csnp-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* authentication csnp-authentication generate *boolean*

Tree generate

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Configurable	True
Platforms	Supported on all platforms

hello-authentication

Description	Enter the hello-authentication context Container with options to control the authentication of Hello PDUs
Context	network-instance name *string* protocols isis instance name *string* authentication hello-authentication
Tree	hello-authentication
Configurable	True
Platforms	Supported on all platforms

check-received *keyword*

Description	Specifies the type of authentication checks done for received PDUs of the specified type.
Context	network-instance name *string* protocols isis instance name *string* authentication hello-authentication check-received *keyword*
Tree	check-received
Options	• strict Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated. • loose Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated. • disable This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs
Configurable	True
Platforms	Supported on all platforms

generate *boolean*

Description	When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

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Context	network-instance name *string* protocols isis instance name *string* authentication hello-authentication generate *boolean*
Tree	generate
Configurable	True
Platforms	Supported on all platforms

key

Description	Enter the key context Container to specify the secret key and crypto algorithm to use for the authentication of PDUs when the behavior is controlled at this level of the configuration hierarchy
Context	network-instance name *string* protocols isis instance name *string* authentication key
Tree	key
Configurable	True
Platforms	Supported on all platforms

auth-password *string*

Description	The secret key to use for authentication of PDUs
Context	network-instance name *string* protocols isis instance name *string* authentication key auth-password *string*
Tree	auth-password
Configurable	True
Platforms	Supported on all platforms

crypto-algorithm *keyword*

Description	The cryptographic algorithm used with the keying material to secure the messages.
Context	network-instance name *string* protocols isis instance name *string* authentication key crypto-algorithm *keyword*
Tree	crypto-algorithm
Options	• cleartext The authentication-key is encoded in plaintext. • hmac-md5

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The authentication-key is used to generate a 16-byte (128 bit) MD5 digest using the HMAC algorithm (RFC 2104).

- hmac-sha-256

  The authentication-key is used to generate a SHA2 digest using the HMAC algorithm (RFC 2104).The SHA-256 variant of SHA2 produces an output of 32 bytes (256 bits).

Configurable True

Platforms Supported on all platforms

keychain *reference*

Description Specifies a keychain to use for the authentication of PDUs when the behavior is controlled at this level of the configuration hierarchy.

Context network-instance name *string* protocols isis instance name *string* authentication keychain *reference*

Tree keychain

Reference system authentication keychain name *string*

Configurable True

Platforms Supported on all platforms

lsp-authentication

Description Enter the lsp-authentication context

Container with options to control the authentication of Link State PDUs

Context network-instance name *string* protocols isis instance name *string* authentication lsp-authentication

Tree lsp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* authentication lsp-authentication check-received *keyword*

Tree check-received

Options

- strict

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Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* authentication lsp-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

psnp-authentication

Description Enter the psnp-authentication context

Container with options to control the authentication of PSNP PDUs

Context network-instance name *string* protocols isis instance name *string* authentication psnp-authentication

Tree psnp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

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Context network-instance name *string* protocols isis instance name *string* authentication psnp-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* authentication psnp-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

auto-cost

Description Enter the auto-cost context

Container for options related to automated and derived interface metrics

Context network-instance name *string* protocols isis instance name *string* auto-cost

Tree auto-cost

Configurable True

Platforms Supported on all platforms

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reference-bandwidth *number*

Description	Configures the reference bandwidth that provides the basis for interface metrics based on link bandwidth. If the reference bandwidth is defined, then the cost is calculated using the following formula: cost = reference-bandwidth / bandwidth When a large reference-bandwidth value is configured, a metric calculation may result in a value higher than the supported protocol cost value. If this occurs, IS-IS automatically reverts to the maximum configurable cost metric. If the reference bandwidth is not configured then all interfaces have a default metric of 10. Note: To use metrics in excess of 63, wide metrics must be deployed
Context	network-instance name *string* protocols isis instance name *string* auto-cost reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 8000000000
Units	kbps
Configurable	True
Platforms	Supported on all platforms

enable-csnp-on-p2p-links *boolean*

Description	Enable/disable the transmission of periodic CSNP PDUs on point-to-point interfaces When this is set to false, CSNP PDUs will only be sent on a P2P interface when the adjacency is initialized. This setting has no effect on broadcast interfaces.
Context	network-instance name *string* protocols isis instance name *string* enable-csnp-on-p2p-links *boolean*
Tree	enable-csnp-on-p2p-links
Default	true
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy to redistribute non-ISIS routes into ISIS
Context	network-instance name *string* protocols isis instance name *string* export-policy *reference*

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Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

graceful-restart

Description	Enter the graceful-restart context Container for options related to IS-IS graceful restart
Context	network-instance name *string* protocols isis instance name *string* graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	Supported on all platforms

acceptable-duration *number*

Description	Initial value of the Remaining Time that is advertised in the Restart TLV with Restart Acknowledgement flag set when this router starts to help another router that has just (re)entered Restart mode.
Context	network-instance name *string* protocols isis instance name *string* graceful-restart acceptable-duration *number*
Tree	acceptable-duration
Range	1 to 20000
Default	60
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

helper-mode *boolean*

Description	Enable or disable the IS-IS graceful restart helper function

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When this leaf is set, the local system supports retaining forwarding information during a neighbor router's restart.

Context network-instance name *string* protocols isis instance name *string* graceful-restart helper-mode *boolean*

Tree helper-mode

Default false

Configurable True

Platforms Supported on all platforms

hello-padding *keyword*

Description Specifies the use of IS-IS Hello PDU padding all interfaces

This can be overridden by interface configuration.

Context network-instance name *string* protocols isis instance name *string* hello-padding *keyword*

Tree hello-padding

Default disable

Options

- strict

  Strict padding option. Hello padding is done continuously, regardless of adjacency state or interface type.

- loose

  Loose padding option. On p2p interfaces hello PDUs are padded from the initial detection of a new neighbor until the adjacency transitions to the INIT state. On broadcast interfaces hello padding is done until there is at least one UP adjacency on the interface.

- adaptive

  Adaptive padding option. On p2p interfaces hello PDUs are padded until the sender declares the adjacency to be UP (based on 3-way handshake or the classic algorithm described in ISO 10589. If the p2p neighbor does not support the adjacency state TLV, then padding continues. On broadcast interfaces hello padding is done until there is at least one UP adjacency on the interface.

- disable

  This enum disables hello PDU padding

Configurable True

Platforms Supported on all platforms

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hostnames

Description	Enter the hostnames context Container to list hostnames along with their associated system ID
Context	network-instance name *string* protocols isis instance name *string* hostnames
Tree	hostnames
Configurable	False
Platforms	Supported on all platforms

system-id host-system-id *string*

Description	List of system IDs that have discovered hostnames.
Context	network-instance name *string* protocols isis instance name *string* hostnames system-id host-system-id *string*
Tree	system-id
Configurable	False
Platforms	Supported on all platforms

host-system-id *string*

Description	The system ID
Context	network-instance name *string* protocols isis instance name *string* hostnames system-id host-system-id *string*
String Length	14
Configurable	False
Platforms	Supported on all platforms

hostname *string*

Description	The hostname of the system.
Context	network-instance name *string* protocols isis instance name *string* hostnames system-id host-system-id *string* hostname *string*
Tree	hostname
Configurable	False
Platforms	Supported on all platforms

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iid-tlv *boolean*

Description ISIS Instance Identifier TLV

When set to true, IID-TLV identifies the unique instance as well as the topology/topologies to which the PDU applies.

Context network-instance name *string* protocols isis instance name *string* iid-tlv *boolean*

Tree iid-tlv

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-id *number*

Description ISIS instance number

Context network-instance name *string* protocols isis instance name *string* instance-id *number*

Tree instance-id

Range 0 to 127

Default 0

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inter-level-propagation-policies

Description Enter the inter-level-propagation-policies context

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Container with options to control the propagation of prefixes between levels

Context network-instance name *string* protocols isis instance name *string* inter-level-propagation-policies

Tree inter-level-propagation-policies

Configurable True

Platforms Supported on all platforms

level1-to-level2

Description Enter the level1-to-level2 context

Container with options to control the propagation of prefixes from level 1 to level 2.

By default all L1 prefixes are propagated without summarizarion into L2.

Context network-instance name *string* protocols isis instance name *string* inter-level-propagation-policies level1-to-level2

Tree level1-to-level2

Configurable True

Platforms Supported on all platforms

summary-address ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description List of summarization prefixes

Context network-instance name *string* protocols isis instance name *string* inter-level-propagation-policies level1-to-level2 summary-address ip-prefix *(ipv4-prefix | ipv6-prefix)*

Tree summary-address

Configurable True

Platforms Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description An IP prefix advertised into L2 that summarizes one or more L1 prefixes and causes them to be suppressed

Context network-instance name *string* protocols isis instance name *string* inter-level-propagation-policies level1-to-level2 summary-address ip-prefix *(ipv4-prefix | ipv6-prefix)*

Configurable True

Platforms Supported on all platforms

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route-tag *number*

Description	Specifies route tag value to assign to the summary route
Context	network-instance name *string* protocols isis instance name *string* inter-level-propagation-policies level1-to-level2 summary-address ip-prefix *(ipv4-prefix | ipv6-prefix)* route-tag *number*
Tree	route-tag
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

interface interface-name *string*

Description	List of IS-IS interfaces
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

interface-name *string*

Description	Name of the IS-IS interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

adjacencies

Description	Enter the adjacencies context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacencies
Tree	adjacencies
Configurable	False
Platforms	Supported on all platforms

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adjacency neighbor-system-id *string* adjacency-level *string*

Description	List of adjacencies formed through this interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string*
Tree	adjacency
Configurable	False
Platforms	Supported on all platforms

neighbor-system-id *string*

Description	The neighbor router's system ID.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string*
String Length	14
Configurable	False
Platforms	Supported on all platforms

adjacency-level *string*

Description	The level of the adjacency that is formed.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string*
Configurable	False
Platforms	Supported on all platforms

adjacency-sid value *number*

Description	List of adjacency Segment IDs.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number*
Tree	adjacency-sid
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Value of the Adj-SID.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-family *keyword*

Description Address-family associated with the segment ID.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* address-family *keyword*

Tree address-family

Options

- ipv4

  IPv4 Address family.

- ipv6

  IPv6 Address family.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup *boolean*

Description Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* backup *boolean*

Tree backup

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming

Description Enter the fib-programming context

FIB programming state of the individual data-plane components for this adjacency SID.

Each adjacency SID can require two separate FIB entries to be installed: an label-table entry that defines the ingress MPLS label action, and an tunnel-table entry that defines the egress forwarding action.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* fib-programming

Tree fib-programming

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-table-entry *keyword*

Description Programming state of the Incoming Label Map entry for this adjacency SID. The label-table entry is the ingress MPLS swap/pop action installed in the FIB for traffic arriving with this label.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* fib-programming label-table-entry *keyword*

Tree label-table-entry

Options

- unknown

  No FIB programming feedback has been received yet for the label-table entry. This is the initial state before the first async FIB response is processed.

- programmed

  The label-table entry has been successfully programmed in the FIB.

- failed

  The FIB reported a failure when programming the label-table entry. The adjacency SID may not forward traffic correctly until the ILM entry is successfully re-programmed.

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-table-entry *keyword*

Description Programming state of the tunnel-table entry for this adjacency SID. The tinnel-table entry is the egress forwarding action installed in the FIB for traffic using this adjacency SID as a transit hop.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* fib-programming tunnel-table-entry *keyword*

Tree tunnel-table-entry

Options

- unknown

  No FIB programming feedback has been received yet for the tunnel-table entry. This is the initial state before the first async FIB response is processed.

- programmed

  The tunnel-table entry has been successfully programmed in the FIB.

- failed

  The FIB reported a failure when programming the tunnel-table entry. The adjacency SID may not forward transit traffic correctly until the tunnel-table entry is successfully re-programmed.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local *boolean*

Description Local flag. When set, the value carried by the SID has local significance. By default the flag is SET.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* local *boolean*

Tree local

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

persistent *boolean*

Description	Persistent Flag. When set, the P-Flag indicates that the Adj-SID is persistently allocated. i.e., the Adj-SID value remains consistent across router restart and/or interface flap.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* persistent *boolean*
Tree	persistent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set *boolean*

Description	Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* set *boolean*
Tree	set
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description	Weight associated with the adjacency SID.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* adjacency-sid value *number* weight *number*
Tree	weight
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

area-address *string*

Description	Area address of the neighbor.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* area-address *string*
Tree	area-address
String Length	2 to 38
Configurable	False
Platforms	Supported on all platforms

designated-is-system-id *string*

Description	System id of the designated IS router.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* designated-is-system-id *string*
Tree	designated-is-system-id
String Length	14
Configurable	False
Platforms	Supported on all platforms

down-reason *keyword*

Description	The reason why the adjacency is down.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* down-reason *keyword*
Tree	down-reason
Options	• 3-way-handshake-failed • address-mismatch • hold-timer-expired • area-mismatch • bad-hello

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- bfd-session-down
- interface-down
- interface-level-disabled
- level-changed
- level-mismatch
- mt-topology-changed
- mt-topology-mismatch
- remote-system-id-changed
- isis-protocol-disabled
- unknown

Configurable False

Platforms Supported on all platforms

internal-idx *number*

Description Extended circuit ID assigned by the neighbor.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* internal-idx *number*

Tree internal-idx

Configurable False

Platforms Supported on all platforms

last-up-down-transition *string*

Description The last time when the adjacency entered the up or down state.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* last-up-down-transition *string*

Tree last-up-down-transition

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

local-extended-circuit-id *number*

Description Local extended circuit ID.

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* local-extended-circuit-id *number*
Tree	local-extended-circuit-id
Configurable	False
Platforms	Supported on all platforms

mt-id *number*

Description	Multi-topology identifiers supported by the neighbor on this adjacency, as signaled in MT TLV 229 of received IIH PDUs. Per RFC 5120, absence of MT TLV 229 is interpreted as participation in topology ID 0 only. When MT TLV 229 is present, the union of all advertised MT-IDs defines the neighbor's topology membership. Common values: 0 - Standard topology (default) 2 - IPv6 unicast multi-topology
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* mt-id *number*
Tree	mt-id
Range	0 to 4095
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-circuit-type *keyword*

Description	The circuit type signalled by the neighbor.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-circuit-type *keyword*
Tree	neighbor-circuit-type
Default	L1L2
Options	• L1 This enum describes ISIS level 1 • L2

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This enum describes ISIS level 2

- L1L2

  This enum describes ISIS level 1-2

Configurable False

Platforms Supported on all platforms

neighbor-extended-circuit-id *number*

Description Extended circuit ID assigned by the neighbor.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-extended-circuit-id *number*

Tree neighbor-extended-circuit-id

Configurable False

Platforms Supported on all platforms

neighbor-hostname *string*

Description The hostname of the neighbor, as learned by TLV 137.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-hostname *string*

Tree neighbor-hostname

Configurable False

Platforms Supported on all platforms

neighbor-ipv4 *string*

Description The IPv4 address of the neighbor.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-ipv4 *string*

Tree neighbor-ipv4

Configurable False

Platforms Supported on all platforms

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neighbor-ipv6 *string*

Description	The IPv6 address of the neighbor.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-ipv6 *string*
Tree	neighbor-ipv6
Configurable	False
Platforms	Supported on all platforms

neighbor-last-restart *(keyword | date-and-time-delta)*

Description	The last time the neighbor restarted under protection of graceful restart.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-last-restart *(keyword | date-and-time-delta)*
Tree	neighbor-last-restart
String Length	20 to 32
Options	• never
Configurable	False
Platforms	Supported on all platforms

neighbor-priority *number*

Description	The priority signalled by the neighbor to become the DIS on a LAN
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-priority *number*
Tree	neighbor-priority
Range	0 to 127
Configurable	False
Platforms	Supported on all platforms

neighbor-restart-capable *boolean*

Description	Reads true when the neighbor has signalled that it is restart capable.

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-restart-capable *boolean*
Tree	neighbor-restart-capable
Configurable	False
Platforms	Supported on all platforms

neighbor-restart-status *keyword*

Description	The status of the neighbor with respect to graceful restart
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-restart-status *keyword*
Tree	neighbor-restart-status
Options	• not-helping • helping
Configurable	False
Platforms	Supported on all platforms

neighbor-restarts *number*

Description	The number of times the neighbor has restarted under protection of graceful restart.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-restarts *number*
Tree	neighbor-restarts
Configurable	False
Platforms	Supported on all platforms

neighbor-snpa *string*

Description	The SNPA of the neighbor.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* neighbor-snpa *string*
Tree	neighbor-snpa
String Length	0 to 20

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Configurable	False
Platforms	Supported on all platforms

nlpid *keyword*

Description	List of protocols supported by the adjacency.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* nlpid *keyword*
Tree	nlpid
Options	• IPv4 NLPID 0xCC corresponding to IPv4 • IPv6 NLPID 0x8E corresponding to IPv6 • CLNS NLPID 0x81 corresponding to CLNS
Configurable	False
Platforms	Supported on all platforms

remaining-adj-sid-holdtime *number*

Description	The remaining holding time for this adjacency-sid.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* remaining-adj-sid-holdtime *number*
Tree	remaining-adj-sid-holdtime
Units	seconds
Configurable	False
Platforms	Supported on all platforms

remaining-holdtime *number*

Description	The time remaining until the hold timer will expire.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* remaining-holdtime *number*
Tree	remaining-holdtime

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Units	seconds
Configurable	False
Platforms	Supported on all platforms

state *keyword*

Description	The current state of the adjacency.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* state *keyword*
Tree	state
Options	• up This state describes that adjacency is established. • down This state describes that adjacency is NOT established. • init This state describes that adjacency is establishing. • failed This state describes that adjacency is failed.
Configurable	False
Platforms	Supported on all platforms

up-down-transitions *number*

Description	The total number of transitions from Up state to a lower state, since the last clear.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacency neighbor-system-id *string* adjacency-level *string* up-down-transitions *number*
Tree	up-down-transitions
Default	0
Configurable	False
Platforms	Supported on all platforms

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admin-state *keyword*

Description Used to administratively enable or disable the IS-IS protocol on a routed subinterface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container for specifying authentication options that apply to the IS-IS instance.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

hello-authentication

Description Enter the hello-authentication context

Container with options to control the authentication of Hello PDUs

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication hello-authentication

Tree hello-authentication

Configurable True

Platforms Supported on all platforms

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check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication hello-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication hello-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

key

Description Enter the key context

Container to specify the secret key and crypto algorithm to use for the authentication of Hello PDUs on this interface

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication key
Tree	key
Configurable	True
Platforms	Supported on all platforms

auth-password *string*

Description	The secret key to use for authentication of Hello PDUs
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication key auth-password *string*
Tree	auth-password
Configurable	True
Platforms	Supported on all platforms

crypto-algorithm *keyword*

Description	The cryptographic algorithm used with the keying material to secure the messages.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication key crypto-algorithm *keyword*
Tree	crypto-algorithm
Options	• cleartext The authentication-key is encoded in plaintext. • hmac-md5 The authentication-key is used to generate a 16-byte (128 bit) MD5 digest using the HMAC algorithm (RFC 2104). • hmac-sha-256 The authentication-key is used to generate a SHA2 digest using the HMAC algorithm (RFC 2104).The SHA-256 variant of SHA2 produces an output of 32 bytes (256 bits).
Configurable	True
Platforms	Supported on all platforms

keychain *reference*

Description	Specifies a keychain to use for the authentication of Hello PDUs on this interface.

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	Supported on all platforms

circuit-id *number*

Description	The circuit ID assigned by this IS-IS router to its interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* circuit-id *number*
Tree	circuit-id
Configurable	False
Platforms	Supported on all platforms

circuit-type *keyword*

Description	Specifies the circuit type as either point-to-point or broadcast
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* circuit-type *keyword*
Tree	circuit-type
Options	• point-to-point This enum describes a point-to-point interface • broadcast This enum describes a broadcast interface
Configurable	True
Platforms	Supported on all platforms

delay

Description	Enter the delay context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay
Tree	delay
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-selection *keyword*

Description	Delay source advertised by IGP for the interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay delay-selection *keyword*
Tree	delay-selection
Default	static-preferred
Options	• static • dynamic • static-preferred • dynamic-preferred
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

normalization

Description	Enter the normalization context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay normalization
Tree	normalization
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable or disable delay-normalization
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay normalization admin-state *keyword*
Tree	admin-state
Default	disable

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Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-tolerance-interval *number*

Description	The interval between two delay values on the interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay normalization delay-tolerance-interval *number*
Tree	delay-tolerance-interval
Range	1 to 10000000
Default	10
Units	microseconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-delay *number*

Description	Represents the minimal delay on an interface in usec
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay normalization minimum-delay *number*
Tree	minimum-delay
Range	1 to 10000000
Default	1
Units	microseconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unidirectional-minimum-link-delay *(number | keyword)*

Description	Operational Unidirectional link delay advertised by ISIS

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* delay unidirectional-minimum-link-delay *(number | keyword)*
Tree	unidirectional-minimum-link-delay
Range	1 to 4294967295
Units	microseconds
Options	• none
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-padding *keyword*

Description	Specifies the use of IS-IS Hello PDU padding on the interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* hello-padding *keyword*
Tree	hello-padding
Options	• strict Strict padding option. Hello padding is done continuously, regardless of adjacency state or interface type. • loose Loose padding option. On p2p interfaces hello PDUs are padded from the initial detection of a new neighbor until the adjacency transitions to the INIT state. On broadcast interfaces hello padding is done until there is at least one UP adjacency on the interface. • adaptive Adaptive padding option. On p2p interfaces hello PDUs are padded until the sender declares the adjacency to be UP (based on 3-way handshake or the classic algorithm described in ISO 10589. If the p2p neighbor does not support the adjacency state TLV, then padding continues. On broadcast interfaces hello padding is done until there is at least one UP adjacency on the interface. • disable This enum disables hello PDU padding
Configurable	True
Platforms	Supported on all platforms

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interface-ref

Description Enter the interface-ref context

Reference to a subinterface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port or LAG

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* interface-ref subinterface *reference*

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Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description	Enter the ipv4-unicast context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv4-unicast
Tree	ipv4-unicast
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	When set to true, the interface and level supports IPv4 unicast routing
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv4-unicast admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

enable-bfd *boolean*

Description	Enable BFD for IPv4
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv4-unicast enable-bfd *boolean*

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Tree	enable-bfd
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-bfd-tlv *boolean*

Description	Specifies whether a BFD-enabled TLV is included for IPv4 on this IS-IS interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv4-unicast include-bfd-tlv *boolean*
Tree	include-bfd-tlv
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description	Enter the ipv6-unicast context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv6-unicast
Tree	ipv6-unicast
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	When set to true, the interface and level supports IPv6 unicast routing

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv6-unicast admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

enable-bfd *boolean*

Description	Enable BFD for IPv6
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv6-unicast enable-bfd *boolean*
Tree	enable-bfd
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-bfd-tlv *boolean*

Description	Specifies whether a BFD-enabled TLV is included for IPv6 on this IS-IS interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* ipv6-unicast include-bfd-tlv *boolean*
Tree	include-bfd-tlv
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp-synchronization

Description Enter the ldp-synchronization context

Container with configuration options and state that pertains to the operation of LDP-IGP synchronization on this interface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization

Tree ldp-synchronization

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable

Description Disable LDP-IGP synchronization procedures on this interface, even if synchronization is enabled globally

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization disable

Tree disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The length of time that the IGP interface has been in sync or out of sync

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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end-of-lib *boolean*

Description When set to true, the IGP restores the normal metric for the IGP adjacency when learning from LDP that all label-FEC mappings have been received from the LDP peer, even if there is remaining time on the hold-down-timer.

When set to false, the IGP always waits for the full duration of the hold-down-timer to restore the normal metric for the IGP adjacency.

This overrides the global/instance level setting

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization end-of-lib *boolean*

Tree end-of-lib

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description The maximum amount of time that the IGP advertises a maximum metric for an interface, measured from the time that the LDP adjacency is re-established after going down.

This overrides the global/instance level setting

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization hold-down-timer *number*

Tree hold-down-timer

Range 1 to 1800

Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-state *keyword*

Description The current state of the interface with respect to LDP-IGP sync

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* ldp-synchronization sync-state *keyword*

Tree sync-state

Options

- wait-for-LDP-adjacency

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The IGP is waiting for the LDP adjacency to come up. The interface is being advertised with max-metric

- hold-down-timer-active

  The LDP adjacency has come up and the IGP has started the hold-down-timer, waiting for either end-of-lib or hold-down-timer expiry. The interface is being advertised with max-metric

- end-of-lib-received

  The IGP received end-of-lib and has switched to normal operation. The interface is being aadveertised with a normal metric

- hold-down-timer-expired

  The IGP did not receive end-of-lib (or was configured to ignore it) but hold-down-timer has expired and normal metric is restored

- manual-exit

  A tools command was performed to exit ldp-sync. Normal operation is resumed, max-metric is removed

- disabled

  ldp-sync is not applicable on this interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level level-number *number*

Description List of IS-IS levels supported by this interface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number*

Tree level

Configurable True

Platforms Supported on all platforms

Max. Elements 2

level-number *number*

Description Specifies the IS-IS protocol level to which these attributes are applied.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number*

Range 1 to 2

Configurable True

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Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container for specifying authentication options that apply to the IS-IS instance.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

hello-authentication

Description Enter the hello-authentication context

Container with options to control the authentication of Hello PDUs

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication hello-authentication

Tree hello-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication hello-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

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Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication hello-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

key

Description Enter the key context

Container to specify the secret key and crypto algorithm to use for the authentication of Hello PDUs on this interface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication key

Tree key

Configurable True

Platforms Supported on all platforms

auth-password *string*

Description The secret key to use for authentication of Hello PDUs

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication key auth-password *string*

Tree auth-password

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Configurable	True
Platforms	Supported on all platforms

crypto-algorithm *keyword*

Description	The cryptographic algorithm used with the keying material to secure the messages.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication key crypto-algorithm *keyword*
Tree	crypto-algorithm
Options	• cleartext The authentication-key is encoded in plaintext. • hmac-md5 The authentication-key is used to generate a 16-byte (128 bit) MD5 digest using the HMAC algorithm (RFC 2104). • hmac-sha-256 The authentication-key is used to generate a SHA2 digest using the HMAC algorithm (RFC 2104).The SHA-256 variant of SHA2 produces an output of 32 bytes (256 bits).
Configurable	True
Platforms	Supported on all platforms

keychain *reference*

Description	Specifies a keychain to use for the authentication of Hello PDUs on this interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* authentication keychain *reference*
Tree	keychain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	Supported on all platforms

disable *boolean*

Description	Disable the Level for the interface.

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* disable *boolean*
Tree	disable
Default	false
Configurable	True
Platforms	Supported on all platforms

ipv4-unicast *boolean*

Description	Placeholder leaf for OC mapping of IPv4 enable flag. Currently forced to true; false is not supported.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* ipv4-unicast *boolean*
Tree	ipv4-unicast
Default	true
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast *boolean*

Description	Placeholder leaf for OC mapping of IPv6 enable flag. Currently forced to true; false is not supported.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	true
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast-metric *number*

Description Specifies the interface metric associated with the IPv6-unicast multi-topology. The default is based on reference-bandwidth, or else if this is not configured the default is 10.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* ipv6-unicast-metric *number*

Tree ipv6-unicast-metric

Range 0 to 16777215

Configurable True

Platforms Supported on all platforms

metric *number*

Description Specifies the interface metric associated with the native routing topology. The default is based on reference-bandwidth, or else if this is not configured the default is 10.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable True

Platforms Supported on all platforms

passive *boolean*

Description When set to true the interface is configured as a passive interface for this level and does not send IIH PDUs or try to form an adjacency with other routers.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* passive *boolean*

Tree passive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description ISIS neighbor priority for becoming Designated IS (LAN hello PDU only).

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* priority *number*

Tree priority

Range 0 to 127

Default 64

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Interface per level statistics

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

pdu pdu-name *keyword*

Description List of PDUs processed by the IS-IS instance since the IS-IS manager restarted

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword*

Tree pdu

Configurable False

Platforms Supported on all platforms

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pdu-name *keyword*

Description The PDU type that was processed

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword*

Options

- LSP

  Link State PDU
- IIH

  IS-to-IS Hello PDU
- CSNP

  Complete Sequence Number PDU
- PSNP

  Partial Sequence Number PDU
- Unknown

  Unknown PDU type

Configurable False

Platforms Supported on all platforms

dropped *number*

Description The number of PDUs that were received and dropped

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword* dropped *number*

Tree dropped

Default 0

Configurable False

Platforms Supported on all platforms

processed *number*

Description The number of PDUs that were received and processed

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword* processed *number*

Tree processed

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Default	0
Configurable	False
Platforms	Supported on all platforms

received *number*

Description	The number of PDUs that were received
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword* received *number*
Tree	received
Default	0
Configurable	False
Platforms	Supported on all platforms

sent *number*

Description	The number of PDUs that were transmitted
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* statistics pdu pdu-name *keyword* sent *number*
Tree	sent
Default	0
Configurable	False
Platforms	Supported on all platforms

timers

Description	Enter the timers context Container for IS-IS hello timers applicable at interface level
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* timers
Tree	timers
Configurable	True
Platforms	Supported on all platforms

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hello-interval *number*

Description	ISIS hello-interval value. The default is 3 seconds on Designated IS interfaces and 9 seconds for non-DIS and p2p interfaces
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* timers hello-interval *number*
Tree	hello-interval
Range	1 to 20000
Default	9
Units	seconds
Configurable	True
Platforms	Supported on all platforms

hello-multiplier *number*

Description	ISIS hello-multiplier value. The neighbor hold time is (hello multiplier x hello interval) on non-designated intermediate system broadcast interfaces and point-to-point interfaces and (hello multiplier x hello interval / 3) on designated intermediate system broadcast interfaces. The hold time is the time in which the neighbor expects to receive the next Hello PDU. If the neighbor receives a Hello within this time, the hold time is reset. If the neighbor does not receive a Hello within the hold time, it brings the adjacency down.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* level level-number *number* timers hello-multiplier *number*
Tree	hello-multiplier
Range	2 to 100
Default	3
Configurable	True
Platforms	Supported on all platforms

loopfree-alternate-exclude *boolean*

Description	Enable/disable Loopfree Alternative at interface level.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude

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Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the IS-IS interface. This simply tracks the operational state of the subinterface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded Component or process is in a degraded state • warm-reboot Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

passive *boolean*

Description When set to true the interface is configured as a passive interface and does not send IIH PDUs or try to form an adjacency with other routers.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* passive *boolean*

Tree passive

Default false

Configurable True

Platforms Supported on all platforms

segment-routing

Description Container with interface-specific segment routing options

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing

Tree segment-routing

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enter the mpls context

SR-MPLS interface options

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls
Tree	mpls
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo flex-algo-id *reference*

Description	List of Flexible Algorithms associated with this node
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference*
Tree	flex-algo
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	7

flex-algo-id *reference*

Description	Flexible Algorithm Identifier used as key
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference*
Reference	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-node-sid

Description	Enable the ipv4-node-sid context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference* ipv4-node-sid
Tree	ipv4-node-sid

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Node SID index for this interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference* ipv4-node-sid index *number*
Tree	index
Range	0 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-node-sid

Description	Enable the ipv6-node-sid context
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference* ipv6-node-sid
Tree	ipv6-node-sid
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Node SID index for this interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls flex-algo flex-algo-id *reference* ipv6-node-sid index *number*
Tree	index
Range	0 to 1048575
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-adjacency-sid

Description The IPv4 adjacency SID associated with the interface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv4-adjacency-sid

Tree ipv4-adjacency-sid

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assignment *keyword*

Description The method that should be used to allocate an adjacency SID or multiple adjacency SIDs for this interface.

This overrides the top level configuration to assign dynamic adjacency SIDs to all interfaces.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv4-adjacency-sid assignment *keyword*

Tree assignment

Options

- static

  The user will statically configure an adjacency SID for the interface. This option is not available if the interface type is not point-to-point.

- dynamic

  IS-IS should dynamically allocate one or more dynamic adjacency SIDs for this interface.

- none

  No adjacency SIDs should be allocated for this interface.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static *number*

Description Configure a static adjacency SID represented by an MPLS label value.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv4-adjacency-sid static *number*

Tree static

Range 16 to 1048575

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-node-sid

Description Configuration of IPv4 node SID.

The (primary) IPv4 address of this interface is advertised as a prefix SID with the node-SID flag set. The associated label is derived from the label index configured in this container.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv4-node-sid

Tree ipv4-node-sid

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Label index to add to SRGB base.

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This causes the V-flag and L-flag in the prefix SID subTLV to be set to zero.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv4-node-sid index *number*

Tree index

Range 0 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-adjacency-sid

Description The IPv6 adjacency SID associated with the interface

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv6-adjacency-sid

Tree ipv6-adjacency-sid

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assignment *keyword*

Description The method that should be used to allocate an adjacency SID or multiple adjacency SIDs for this interface.

This overrides the top level configuration to assign dynamic adjacency SIDs to all interfaces.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv6-adjacency-sid assignment *keyword*

Tree assignment

Options

- static

  The user will statically configure an adjacency SID for the interface. This option is not available if the interface type is not point-to-point.

- dynamic

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IS-IS should dynamically allocate one or more dynamic adjacency SIDs for this interface.

- none

  No adjacency SIDs should be allocated for this interface.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static *number*

Description Configure a static adjacency SID represented by an MPLS label value.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv6-adjacency-sid static *number*

Tree static

Range 16 to 1048575

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-node-sid

Description Configuration of IPv6 node SID.

The (primary) IPv6 address of this interface is advertised as a prefix SID with the node-SID flag set. The associated label is derived from the label index configured in this container.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv6-node-sid

Tree ipv6-node-sid

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Label index to add to SRGB base. This causes the V-flag and L-flag in the prefix SID subTLV to be set to zero.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* segment-routing mpls ipv6-node-sid index *number*
Tree	index
Range	0 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics associated with this IS-IS interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

adjacency-changes *number*

Description	Number of times an adjacency state change has occurred on this circuit(summed across all adjacencies).
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics adjacency-changes *number*
Tree	adjacency-changes
Default	0
Configurable	False
Platforms	Supported on all platforms

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adjacency-number *number*

Description	Number of adjacencies on this circuit.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics adjacency-number *number*
Tree	adjacency-number
Default	0
Configurable	False
Platforms	Supported on all platforms

area-address-mismatches *number*

Description	Number of times an IS-IS L1 hello was received on this circuit with a area address field different from that for this system
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics area-address-mismatches *number*
Tree	area-address-mismatches
Default	0
Configurable	False
Platforms	Supported on all platforms

authentication-failures *number*

Description	Number of times an IS-IS control PDU with the correct auth type has failed to pass authentication validation on the interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics authentication-failures *number*
Tree	authentication-failures
Default	0
Configurable	False
Platforms	Supported on all platforms

authentication-type-failures *number*

Description	Number of times an IS-IS control PDU with an auth type field different from that for this system has been received on the interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics authentication-type-failures *number*

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Tree	authentication-type-failures
Default	0
Configurable	False
Platforms	Supported on all platforms

designated-is-changes *number*

Description	Number of times the Designated IS has changed on this circuit.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics designated-is-changes *number*
Tree	designated-is-changes
Default	0
Configurable	False
Platforms	Supported on all platforms

max-area-address-mismatches *number*

Description	Number of times an IS-IS control PDU with a max area address field different from that for this system has been received on the interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics max-area-address-mismatches *number*
Tree	max-area-address-mismatches
Default	0
Configurable	False
Platforms	Supported on all platforms

rejected-adjacencies *number*

Description	Number of times an adjacency has been rejected on this circuit.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics rejected-adjacencies *number*
Tree	rejected-adjacencies
Default	0
Configurable	False
Platforms	Supported on all platforms

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system-id-length-mismatches *number*

Description	Number of times an IS-IS control PDU with a system ID field length different from that for this system has been received on the interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* statistics system-id-length-mismatches *number*
Tree	system-id-length-mismatches
Default	0
Configurable	False
Platforms	Supported on all platforms

timers

Description	Enter the timers context Container to specify IS-IS interface-level timers for LSP generation and sequence-number PDUs
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* timers
Tree	timers
Configurable	True
Platforms	Supported on all platforms

csnp-interval *number*

Description	The interval, specified in seconds, at which periodic CSNP packets should be transmitted by the local IS on this interface.
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* timers csnp-interval *number*
Tree	csnp-interval
Range	1 to 65535
Default	10
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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lsp-pacing-interval *number*

Description

Controls the interval between (bursts of) LSPs sent from the interface. The interval applies to all LSPs: LSPs generated by the router, and LSPs received from other routers and re-flooded.

The burst interval is 100 ms if the lsp-pacing-interval < 100 ms and otherwise it is 1 second. For example, if the lsp-pacing-interval is 2 ms, at most 50 LSPs are sent every 100 ms. On the other hand, if the lsp-pacing-interval is 100 ms, at most 10 LSPs are sent every 1 second.

If a value of 0 is configured, no LSPs are sent from the interface.

The default pacing interval of 100 milliseconds means that a maximum of 10 LSPs are sent in a burst every second.

Context

network-instance name *string* protocols isis instance name *string* interface interface-name *string* timers lsp-pacing-interval *number*

Tree

lsp-pacing-interval

Range

0 to 100000

Default

100

Units

milliseconds

Configurable

True

Platforms

Supported on all platforms

trace-options

Description

Enter the trace-options context

Interface level debug trace options for IS-IS

Context

network-instance name *string* protocols isis instance name *string* interface interface-name *string* trace-options

Tree

trace-options

Configurable

True

Platforms

Supported on all platforms

trace *keyword*

Description

List of tracing options

Context

network-instance name *string* protocols isis instance name *string* interface interface-name *string* trace-options trace *keyword*

Tree

trace

Options

- adjacencies

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- packets-all
- packets-p2p-hello
- packets-l1-hello
- packets-l2-hello
- packets-l1-psnp
- packets-l2-psnp
- packets-l1-csnp
- packets-l2-csnp
- packets-l1-lsp
- packets-l2-lsp

Configurable True

Platforms Supported on all platforms

weighted-ecmp

Description Enter the weighted-ecmp context

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

load-balancing-weight *(number | keyword)*

Description The load-balancing weight of the interface, which applies when weighted ECMP is enabled and the interface is part of a multipath set.

Context network-instance name *string* protocols isis instance name *string* interface interface-name *string* weighted-ecmp load-balancing-weight *(number | keyword)*

Tree load-balancing-weight

Range 1 to 4294967295

Default auto

Options

- auto

  Load-balancing weight is based on the bandwidth of the parent interface (port or LAG)

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- none

  The interface should not participate in weighted ECMP

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description Enter the ipv4-unicast context

Enables/disables IPv4 routing in this ISIS instance.

Context network-instance name *string* protocols isis instance name *string* ipv4-unicast

Tree ipv4-unicast

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description When set to true, the IS-IS instance supports IPv4 unicast routing

Context network-instance name *string* protocols isis instance name *string* ipv4-unicast admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

suppress-interface-ip *keyword*

Description Suppress advertisement of IPv4 interface prefixes

When set to non-passive, IS-IS must suppress LSP PDU advertisement of IPv4 prefixes that correspond to any IS-IS interface not configured as passive.

Context network-instance name *string* protocols isis instance name *string* ipv4-unicast suppress-interface-ip *keyword*

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Tree suppress-interface-ip

Default none

Options
- none
- non-passive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description Enter the ipv6-unicast context

Enables/disables IPv6 routing in this ISIS instance.

Context network-instance name *string* protocols isis instance name *string* ipv6-unicast

Tree ipv6-unicast

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description When set to true, the IS-IS instance supports IPv6 unicast routing

Context network-instance name *string* protocols isis instance name *string* ipv6-unicast admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms Supported on all platforms

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multi-topology *boolean*

Description When set to true, IS-IS multi-topology TLVs are used for IPv6 routing and support for native IPv6 TLVs is disabled.

Context network-instance name *string* protocols isis instance name *string* ipv6-unicast multi-topology *boolean*

Tree multi-topology

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppress-interface-ip *keyword*

Description Suppress advertisement of IPv6 interface prefixes

When set to non-passive, IS-IS must suppress LSP PDU advertisement of IPv6 prefixes that correspond to any IS-IS interface not configured as passive.

Context network-instance name *string* protocols isis instance name *string* ipv6-unicast suppress-interface-ip *keyword*

Tree suppress-interface-ip

Default none

Options

- none
- non-passive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ldp-synchronization

Description Enable LDP-IGP synchronization procedures on all P2P interfaces and all LAN interfaces with a single adjancency, except on interfaces where the functionality is explicitly disabled

Context network-instance name *string* protocols isis instance name *string* ldp-synchronization

Tree ldp-synchronization

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-of-lib *boolean*

Description When set to true, the IGP restores the normal metric for the IGP adjacency when learning from LDP that all label-FEC mappings have been received from the LDP peer, even if there is remaining time on the hold-down-timer.

When set to false, the IGP always waits for the full duration of the hold-down-timer to restore the normal metric for the IGP adjacency

Context network-instance name *string* protocols isis instance name *string* ldp-synchronization end-of-lib *boolean*

Tree end-of-lib

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description The maximum amount of time that the IGP advertises a maximum metric for an interface, measured from the time that the LDP adjacency is re-established after going down

Context network-instance name *string* protocols isis instance name *string* ldp-synchronization hold-down-timer *number*

Tree hold-down-timer

Range 1 to 1800

Default 60

Units seconds

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level level-number *number*

Description	List of IS-IS levels supported by this IS (router)
Context	network-instance name *string* protocols isis instance name *string* level level-number *number*
Tree	level
Configurable	True
Platforms	Supported on all platforms
Max. Elements	2

level-number *number*

Description	Specifies the IS-IS protocol level to which these attributes are applied.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number*
Range	1 to 2
Configurable	True
Platforms	Supported on all platforms

authentication

Description	Enter the authentication context Container for specifying authentication options that apply to the entire IS-IS instance or to an entire level. The settings in this container only apply to PDUs without an authentication behavior specified at a more granular level.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* authentication
Tree	authentication
Configurable	True
Platforms	Supported on all platforms

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csnp-authentication

Description Enter the csnp-authentication context

Container with options to control the authentication of CSNP PDUs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication csnp-authentication

Tree csnp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication csnp-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication csnp-authentication generate *boolean*

Tree generate

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Configurable True

Platforms Supported on all platforms

hello-authentication

Description Enter the hello-authentication context

Container with options to control the authentication of Hello PDUs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication hello-authentication

Tree hello-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication hello-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* authentication hello-authentication generate *boolean*
Tree	generate
Configurable	True
Platforms	Supported on all platforms

key

Description	Enter the key context Container to specify the secret key and crypto algorithm to use for the authentication of PDUs when the behavior is controlled at this level of the configuration hierarchy
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* authentication key
Tree	key
Configurable	True
Platforms	Supported on all platforms

auth-password *string*

Description	The secret key to use for authentication of PDUs
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* authentication key auth-password *string*
Tree	auth-password
Configurable	True
Platforms	Supported on all platforms

crypto-algorithm *keyword*

Description	The cryptographic algorithm used with the keying material to secure the messages.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* authentication key crypto-algorithm *keyword*
Tree	crypto-algorithm
Options	• cleartext The authentication-key is encoded in plaintext. • hmac-md5

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The authentication-key is used to generate a 16-byte (128 bit) MD5 digest using the HMAC algorithm (RFC 2104).

- hmac-sha-256

  The authentication-key is used to generate a SHA2 digest using the HMAC algorithm (RFC 2104).The SHA-256 variant of SHA2 produces an output of 32 bytes (256 bits).

Configurable True

Platforms Supported on all platforms

keychain *reference*

Description Specifies a keychain to use for the authentication of PDUs when the behavior is controlled at this level of the configuration hierarchy.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication keychain *reference*

Tree keychain

Reference system authentication keychain name *string*

Configurable True

Platforms Supported on all platforms

lsp-authentication

Description Enter the lsp-authentication context

Container with options to control the authentication of Link State PDUs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication lsp-authentication

Tree lsp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication lsp-authentication check-received *keyword*

Tree check-received

Options

- strict

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Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication lsp-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

psnp-authentication

Description Enter the psnp-authentication context

Container with options to control the authentication of PSNP PDUs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication psnp-authentication

Tree psnp-authentication

Configurable True

Platforms Supported on all platforms

check-received *keyword*

Description Specifies the type of authentication checks done for received PDUs of the specified type.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication psnp-authentication check-received *keyword*

Tree check-received

Options

- strict

  Strict authentication option. Reject all packets that do not have an authentication TLV or that do have an authentication TLV that cannot be validated.

- loose

  Loose authentication option. Accept packets received without an authentication TLV; validate packets received with an authentication TLV and reject those packets that cannot be validated.

- disable

  This enum disables athentication checks. Do not check authentication TLV (if any) of received PDUs; authentication TLV may still be added self-generated PDUs

Configurable True

Platforms Supported on all platforms

generate *boolean*

Description When set to true, IS-IS is instructed to add an authentication TLV to every transmitted PDU of the specified type

Context network-instance name *string* protocols isis instance name *string* level level-number *number* authentication psnp-authentication generate *boolean*

Tree generate

Configurable True

Platforms Supported on all platforms

bgp-ls-exclude *boolean*

Description When set to true, topology and TE information related to this area or level should nkot be imported into the TE database in a format that supports export as BGP-LS routes

Context network-instance name *string* protocols isis instance name *string* level level-number *number* bgp-ls-exclude *boolean*

Tree bgp-ls-exclude

Default false

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-state-database

Description Enter the link-state-database context

State representation of the ISIS LSDB.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database

Tree link-state-database

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp lsp-id *string*

Description List of LSPs in the LSDB.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string*

Tree lsp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *string*

Description The value specifies the LSP Id and is given in the format as 6 octets of adjacency system-id followed by 1 octet Lan-ID and 1 octet LSP Number.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string*

String Length 20

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

checksum *number*

Description Checksum of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* checksum *number*

Tree checksum

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description LSP Type-Block flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* flags *keyword*

Tree flags

Options

- partition-repair

  When set, the originator supports partition repair.
- attached-error

  When set, the originator is attached to another area using the referred metric.
- attached-expense

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When set, the originator is attached to another area using the referred metric.

- attached-delay

  When set, the originator is attached to another area using the referred metric.

- attached-default

  When set, the originator is attached to another area using the referred metric.

- overload

  When set, the originator is overloaded, and must be avoided in path calculation.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id-length *number*

Description Length of the ID field of NSAP addresses and NETs used in this routing domain.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* id-length *number*

Tree id-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-type *number*

Description Type of neighboring system.

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* is-type *number*
Tree	is-type
Range	1 to 3
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-area-addresses *number*

Description	Number of area addresses permitted for this ISs area 0 indicates the IS only supports three area addresses (by default). Any number inclusive of 1 and 254 indicates the number of areas allowed.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* maximum-area-addresses *number*
Tree	maximum-area-addresses
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-length *number*

Description	Total length of the LSP.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* pdu-length *number*
Tree	pdu-length
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-type *keyword*

Description Link State PDU type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* pdu-type *keyword*

Tree pdu-type

Options

- level-1

  This enum describes ISIS level 1 PDU.

- level-2

  This enum describes ISIS level 2 PDU.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining-lifetime *number*

Description Remaining lifetime in seconds before the LSP expiration.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* remaining-lifetime *number*

Tree remaining-lifetime

Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-number *number*

Description Sequence number of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* sequence-number *number*

Tree sequence-number

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tlvs

Description Enter the tlvs context

This container defines Link State PDU State TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs

Tree tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tlv type *identityref*

Description List of TLV types in the LSDB for the specified LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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Tree	tlv
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description	The type of TLV being described. The type of TLV is expressed as a canonical name.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*
Options	• area-addresses ISIS TLV 1 • iis-neighbors ISIS TLV 2 • instance-id ISIS TLV 7 An Instance Identifier (IID) to uniquely identify an IS-IS instance. When the IID = 0, the list of supported ITIDs MUST NOT be present. An IID-TLV with IID = 0 MUST NOT appear in an SNP or LSP. When the TLV appears (with a non-zero IID) in an SNP or LSP, exactly one ITID. MUST be present indicating the topology with which the PDU is associated. If no ITIDs or multiple ITIDs are present or the IID is zero, then the PDU MUST be ignored • authentication ISIS TLV 10 • purge-oi ISIS TLV 13 If an IS generates a purge, it SHOULD include this TLV in the purge with its own system ID. If an IS receives a purge that does not include this TLV, then it SHOULD add this TLV with both its own system ID and the system ID of the IS from which it received the purge. This allows ISs receiving purges to log the system ID of the originator, or the upstream source of the purge. • lsp-buffer-size

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ISIS TLV 14. The maximum MTU that the advertising system can receive, expressed in bytes.

- extended-is-reachability

  ISIS TLV 22. An extended IS reachability TLV that has a different data structure to TLV 2 that introduces the use of sub-TLV object-group.

- is-neighbor-attribute

  ISIS TLV 23. Identical in format to TLV 22 and included in Original LSPs or Extended LSPs. Regardless of the type of LSP in which the TLVs appear, the information pertains to the neighbor relationship between the Originating System and the IS identified in the TLV

- isis-alias-id

  ISIS TLV 24. IS-Alias TLV which extension-capable ISs to recognize the Originating System of an Extended LSP set. It identifies the Normal system-id of the Originating System

- ipv4-internal-reachability

  ISIS TLV 128. TLV defines IP addresses within the routing domain reachable directly via one or more interfaces on this Intermediate system

- nlpid

  ISIS TLV 129. TLV defines the set Network Layer Protocol Identifiers for Network Layer protocols that this Intermediate System is capable of relaying

- ipv4-external-reachability

  ISIS TLV 130. TLV defines IP addresses outside the routing domain reachable via interfaces on this Intermediate system. This is permitted to appear multiple times, and in an LSP with any LSP number. However, this field must not appear in pseudonode LSPs

- ipv4-interface-addresses

  ISIS TLV 132. The IP address of one or more interfaces corresponding to the SNPAs enabled on this Intermediate system (i.e., one or more IP addresses of this router). This is permitted to appear multiple times, and in an LSP with any LSP number.

- ipv4-te-router-id

  ISIS TLV 134. Traffic Engineering router ID TLV that contains the 4-octet router ID of the router originating the LSP

- extended-ipv4-reachability

  ISIS TLV 135. Extended IP reachability TLV that provides for a 32-bit metric and adds one bit to indicate that a prefix has been redistributed _ down_ in the hierarchy

- dynamic-name

  ISIS TLV 137. The Dynamic hostname TLV is optional. This TLV may be present in any fragment of a non-pseudonode LSP. The value field identifies the symbolic name of the router originating the LSP. This

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symbolic name can be the FQDN for the router, it can be a subset of the FQDN, or it can be any string operators want to use for the router.

- ipv4-srlg

  ISIS TLV 138. IPv4 Shared Risk Link Group TLV

- ipv6-srlg

  ISIS TLV 139. IPv6 Shared Risk Link Group

- ipv6-te-router-id

  ISIS TLV 140. The IPv6 TE Router ID TLV contains a 16-octet IPv6 address. A stable global IPv6 address MUST be used, so that the router ID provides a routable address, regardless of the state of a node's interfaces. If a router does not implement traffic engineering, it MAY include or omit the IPv6 TE Router ID TLV. If a router implements traffic engineering for IPv6, it MUST include this TLV in its LSP. This TLV MUST NOT be included more than once in an LSP.

- mt-isn

  ISIS TLV 222. TLV is aligned with extended IS reachability TLV type 22 beside an additional two bytes in front at the beginning of the TLV that. indicate MT membership.

- mt-is-neighbor-attribute

  ISIS TLV 223. It is identical in format to TLV 222. In the event that there is a need to advertise in Extended LSPs such information associated with neighbors of the Originating System, it is necessary to define new TLVs to carry the sub-TLV information.

- multi-topology

  ISIS TLV 229. This MT TLV can advertise up to 127 MTs. It is announced in IIHs and LSP fragment 0, and can occur multiple times. The resulting MT set SHOULD be the union of all the MT TLV occurrences in the packet. Any other IS-IS PDU occurrence of this TLV MUST be ignored. Lack of MT TLV in hellos and fragment zero LSPs MUST be interpreted as participation of the advertising interface or router in MT ID #0 only. If a router advertises MT TLV, it has to advertise all the MTs it participates in, specifically including topology ID #0 also.

- ipv6-interface-addresses

  ISIS TLV 232. IPv6 Interface Address TLV that maps directly to the IP Interface Address TLV in [RFC1195]. We necessarily modify the contents to be 0-15 16-octet IPv6 interface addresses instead of 0-63 4-octet IPv4 interface addresses

- mt-ipv4-reachability

  ISIS TLV 235. TLV is aligned with extended IP reachability TLV type 135 beside an additional two bytes in front to indicate MT membership

- ipv6-reachability

  ISIS TLV 236. The IPv6 Reachability TLV describes network reachability through the specification of a routing prefix, metric information, a bit to indicate if the prefix is being advertised down from a higher level, a bit to

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indicate if the prefix is being distributed from another routing protocol, and OPTIONALLY the existence of Sub-TLVs to allow for later extension.

- mt-ipv6-reachability

  ISIS TLV 237. TLV is aligned with IPv6 Reachability TLV type 236 beside an additional two bytes in front to indicate MT membership.

- router-capability

  ISIS TLV 242. IS-IS TLV named CAPABILITY, formed of multiple sub-TLVs, which allows a router to announce its capabilities within an IS-IS level or the entire routing domain.

- srv6-locator

  ISIS TLV 27. A locator is a covering prefix for all SIDs provisioned on that node that have the matching topology/algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

area-address

Description Enter the area-address context

This container defines TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* area-address

Tree area-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description Area adress(es) of the IS. Set of manual area addresses of this IS.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* area-address address *string*

Tree address

String Length 2 to 38

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description Enter the authentication context

This container defines authentication information of the node.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* authentication

Tree authentication

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication-key *string*

Description Authentication key to be used.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* authentication authentication-key *string*

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Tree	authentication-key
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crypto-type *keyword*

Description	Enter the crypto-type context
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* authentication crypto-type *keyword*
Tree	crypto-type
Options	• cleartext • crypto • hmac-md5
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-ipv4-reachability

Description	Enter the extended-ipv4-reachability context This container defines list of IPv4 extended reachability information.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability
Tree	extended-ipv4-reachability
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description Enter the prefixes context

This container describes IS prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes

Tree prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string*

Description This list describes IPv4 extended prefixes and attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *string*

Description IPv4 prefix contained within extended reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-bit *boolean*

Description The Sub-TLV present bit. If UNSET, the octets of Sub-TLVs are not present. Otherwise, the bit is set and the octet following the prefix will contain the length of the Sub-TLV portion of the structure.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* s-bit *boolean*

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Tree	s-bit
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description	Enter the subtlvs context This container describes IS prefix sub-TLVs.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs
Tree	subtlvs
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description	List of subTLV types in the LSDB for the specified TLV.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref*
Tree	subtlv
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags

Tree flags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Additional prefix reachability flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags flags *keyword*

Tree flags

Options

- external-flag

  External prefix flag. Set if the prefix has been redistributed from another protocol. This includes the case where multiple virtual routers are supported and the source of the redistributed prefix is another IS-IS instance.

- readvertisement-flag

  Readvertisement flag. Set when the prefix has been leaked from one level to another (upwards or downwards).

- node-flag

  Node flag. Set when the prefix identifies the advertising router, i.e., the prefix is a host prefix advertising a globally reachable address typically associated with a loopback address.

- elc-flag

  Elc flag. Set for local host prefix of the originating node if it supports ELC on all interfaces

- anycast-flag

  Anycast flag. Set if the prefix is anycast

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metrics

Description Enter the flexible-algorithm-prefix-metrics context

This list defines sub-TLV 6 for Flexible Algorithm prefix metrics.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics

Tree flexible-algorithm-prefix-metrics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metric algorithm *number*

Description Enter the flexible-algorithm-prefix-metric list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Tree flexible-algorithm-prefix-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Flexible Algorithm number.

Single octet value between 128 and 255 inclusive.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Flexible Algorithm prefix metric value.

4 octets of metric information.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* metric *number*

Tree metric

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Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-source-router-id

Description Enter the ipv4-source-router-id context

This container defines sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id

Tree ipv4-source-router-id

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 Source router ID address. In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

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Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-source-router-id

Description Enter the ipv6-source-router-id context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id

Tree ipv6-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv6 Source router ID address.

In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the

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advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sids

Description Enter the prefix-sids context

This container defines segment routing extensions for prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids

Tree prefix-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid value *number*

Description Prefix Segment-ID list. IGP-Prefix Segment is an IGP segment attached to an IGP prefix. An IGP-Prefix Segment is global (unless explicitly advertised otherwise) within the SR/IGP domain.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Tree prefix-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description IGP Prefix-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Prefix-SID algorithm to be used for path computation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Prefix Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* flags *keyword*

Tree flags

Options

- readvertisement

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Readvertisment flag. When set, the prefix to which this Prefix-SID is attached, has been propagated by the router either from another level or from redistribution.

- node

  Node flag. When set, the Prefix-SID refers to the router identified by the prefix. Typically, the N-Flag is set on Prefix-SIDs attached to a router loopback address.

- no-php

  Penultimate-Hop-Popping flag. When set, then the penultimate hop MUST NOT pop the Prefix-SID before delivering the packet to the node that advertised the Prefix-SID.

- explicit-null

  Explicit-Null flag. When set, any upstream neighbor of the Prefix-SID originator MUST replace the Prefix-SID with a Prefix-SID having an Explicit-NULL value (0 for IPv4 and 2 for IPv6) before forwarding the packet.

- value

  Value flag. When set, the Prefix-SID carries a value (instead of an index). By default the flag is UNSET.

- local

  Local flag. When set, the value/index carried by the Prefix-SID has local significance. By default the flag is UNSET.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

This container defines sub-TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag

Tree tag

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag32 *number*

Description List of 32-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag tag32 *number*

Tree tag32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64

Description Enter the tag64 context

This container defines sub-TLV 2.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag64

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64 *number*

Description List of 64-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag64 tag64 *number*

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit. Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-ipv4-reachability prefixes prefix prefix *string* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-is-reachability

Description

Enter the extended-is-reachability context

This container defines list of ISIS extended reachability neighbors.

Context

network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability

Tree

extended-is-reachability

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description

Enter the neighbors context

This container describes IS neighbors.

Context

network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors

Tree

neighbors

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor system-id *string*

Description This list describes ISIS extended neighbors and reachability attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string*

Tree neighbor

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System-id of the neighbor.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string*

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instances

Description Enter the instances context

This list contains all instances of an adjacency between the originating IS and the remote IS. Multiple instances are used where there are parallel adjacencies between two systems.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances

Tree instances

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance id *number*

Description Instance of the TLV to the remote IS neighbor.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number*

Tree instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Unique identifier for the instance of the TLV for the IS neighbor. The instance ID is not required to be consistent across across readvertisements of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* metric *number*

Tree metric

Range 1 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes IS Neighbor sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sids

Description Enter the adjacency-sids context

This container defines segment routing adjacency SIDs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids

Tree adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Tree adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-specific-link-attributes

Description Enter the application-specific-link-attributes context

This grouping is to display application specific link attributes (sub-TLV 238).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes

Tree application-specific-link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-specific-link-attribute instance *number*

Description List of Application Specific Link Attributes. Sub-TLV = 16.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*

Tree application-specific-link-attribute

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance *number*

Description Unique instance identifier for the application-specific link attribute entry.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm *boolean*

Description X bit is set in the Standard Application Identifier Bit Mask

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* flexible-algorithm *boolean*

Tree flexible-algorithm

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

legacy *boolean*

Description	When the legacy flag is set, all of the applications specified in the bit mask MUST use the legacy advertisements for the corresponding link found in TLVs 22, 23, 25, 141, 222, and 223, in TLV 138, or in TLV 139 as appropriate.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* legacy *boolean*
Tree	legacy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loop-free-alternate *boolean*

Description	F bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* loop-free-alternate *boolean*
Tree	loop-free-alternate
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te *boolean*

Description	R bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* rsvp-te *boolean*

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Tree	rsvp-te
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-policy *boolean*

Description	S bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sr-policy *boolean*
Tree	sr-policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description	Enter the sub-sub-tlvs context
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs
Tree	sub-sub-tlvs
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description	A bit mask representing the administrative groups to which the interface belongs. Sub-Sub-TLV = 3.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-

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attributes application-specific-link-attribute instance *number* sub-sub-tlvs admin-group *number*

Tree admin-group

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-link-bandwidth *number*

Description The (LAG aware) bandwidth of the interface to the neighbor. Sub-Sub-TLV = 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs maximum-link-bandwidth *number*

Tree maximum-link-bandwidth

Units bytes-per-second

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-unidirectional-link-delay

Description Enter the min-max-unidirectional-link-delay context

The minimum and maximum delay between two directly connected IS-IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay

Tree min-max-unidirectional-link-delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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anomolous *boolean*

Description If the A bit is cleared, the values represent steady-state link performance.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay anomolous *boolean*

Tree anomolous

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum forward-path delay (from the advertising router to the remote neighbor)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum forward-path delay (from the advertising router to the remote neighbor)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay min-delay *number*

Tree min-delay

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Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description	List of subsubTLV types in the LSDB for the specified TLV.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*
Tree	sub-sub-tlv
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description	The type of subsubTLV being described. The type of subsubTLV is expressed as a canonical name.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*
Options	• is-reachability-admin-group sub-TLV 3. Administrative group(color). • is-reachability-link-id sub-TLV 4. Link Local/Remote Identifiers. • is-reachability-ipv4-interface-address sub-TLV 6. IPv4 Interface Address. • is-reachability-ipv4-neighbor-address

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sub-TLV 8. IPv4 Neighbor Address.

- is-reachability-max-link-bandwidth
  sub-TLV 9. Maximum Link Bandwidth.
- is-reachability-max-reservable-bandwidth
  sub-TLV 10. Maximum Reservable Bandwidth.
- is-reachability-unreserved-bandwidth
  sub-TLV 11. Unreserved bandwidth.
- is-reachability-ipv6-interface-address
  sub-TLV 12. IPv6 Interface Address.
- is-reachability-ipv6-neighbor-address
  sub-TLV 13. IPv6 Neighbor Address.
- is-reachability-extended-admin-group
  sub-TLV 14. Extended Administrative Group.
- is-reachability-te-default-metric
  sub-TLV 18. TE Default Metric.
- is-reachability-link-attributes
  sub-TLV 19. Link Attributes.
- is-reachability-link-protection-type
  sub-TLV 20. Link Protection Type.
- is-reachability-bandwidth-constraints
  sub-TLV 22. Bandwidth Constraints.
- is-reachability-unconstrained-lsp
  sub-TLV 23. Unconstrained LSP.
- is-reachability-adj-sid
  sub-TLV 31. Adjacency Segment Identifier.
- is-reachability-adj-lan-sid
  sub-TLV 32. Adjacency LAN Segment Identifier.
- is-reachability-link-delay
  sub-TLV 33. Unidirectional Link Delay.
- is-reachability-min-max-link-delay
  sub-TLV 34. Min/Max Unidirectional Link Delay.
- is-reachability-link-delay-variation
  sub-TLV 35. Unidirectional Link Delay Variation.
- is-reachability-link-loss
  sub-TLV 36. Unidirectional Link Loss Delay.
- is-reachability-residual-bandwidth

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sub-TLV 37. Unidirectional Residual Bandwidth.

- is-reachability-available-bandwidth

  sub-TLV 38. Unidirectional Available Bandwidth.

- is-reachability-utilized-bandwidth

  sub-TLV 39. Unidirectional Utilized Bandwidth.

- is-reachability-application-specific-link-attributes

  Base identity for an ISIS TLV 16 SUB-TLV type.

- srv6-adj-sid

  sub-TLV 43. SRv6 END.X SID

- srv6-adj-lan-sid

  sub-TLV 44. SRv6 LAN END.X SID

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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extended-admin-group *number*

Description	The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group extended-admin-group *number*
Tree	extended-admin-group
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description	Enter the max-link-bandwidth context This container defines sub-TLV 9.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth
Tree	max-link-bandwidth
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). It is encoded in 32 bits in IEEE floating point format. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric *number*

Description An administratively assigned metric used as an alternative to the normal SPF metric based (typically) on link bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs te-default-metric *number*

Tree te-default-metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description Enter the type context

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* type *identityref*

Tree type

Options

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description Enter the available-bandwidth context

This container defines unidirectional lavailable bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth

Tree available-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The available bandwidth on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, available bandwidth is defined to be residual bandwidth minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraints

Description Enter the bandwidth-constraints context

This container defines bandwidth-constraints. For DS-TE, the existing Maximum Reservable link bandwidth parameter is retained, but its semantics is generalized and interpreted as the aggregate bandwidth constraint across all Class-Types

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints

Tree bandwidth-constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraint model-id *number*

Description List of the Bandwidth Constraints sub-TLV instances present in the TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Tree bandwidth-constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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model-id *number*

Description Identifier for the Bandwidth Constraints Model currently in use by the LSR initiating the IGP advertisement.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraints

Description Enter the constraints context

Constraints contained within the Bandwidth Constraints sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints

Tree constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint constraint-id *number*

Description List of the constraints within the Bandwidth Constraints sub-TLV. The BC0 level is indicated by the constraint-id leaf being set to 0, with BCN being indicated by constraint-id N.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Tree constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint-id *number*

Description Unique reference for the bandwidth constraint level. BC0 is indicated by this leaf being set to zero, with BCN represented by this leaf being set to N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The bandwidth constraint, expressed as a 32-bit IEEE floating point number expressed in bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints

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bandwidth-constraint model-id *number* constraints constraint constraint-id *number* bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group extended-admin-group *number*

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Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-address

Description Enter the ipv4-interface-address context

This container defines sub-TLV 6.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address

Tree ipv4-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description A 4-octet IPv4 address for the interface described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-neighbor-address

Description Enter the ipv4-neighbor-address context

This container defines sub-TLV 8.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address

Tree ipv4-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description A single IPv4 address for a neighboring router on this link. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-interface-address

Description Enter the ipv6-interface-address context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address

Tree ipv6-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for the interface described by the containing Extended IS Reachability TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-neighbor-address

Description Enter the ipv6-neighbor-address context

This container defines sub-TLV 13.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address

Tree ipv6-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for a neighboring router on the link described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sids

Description Enter the lan-adjacency-sids context

This container defines segment routing LAN adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids

Tree lan-adjacency-sids

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Tree lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description LAN Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN- Adj-Segment-ID value.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-attributes

Description Enter the link-attributes context

This container defines link-attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes

Tree link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-protection *keyword*

Description Link local-protection attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes local-protection *keyword*

Tree local-protection

Options

- local-protection

  If set, local protection is available for the link.

- link-excluded

  If set, the link is excluded from local protection.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay

Description Enter the link-delay context

This container defines unidirectional link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay

Tree link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay value (in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay delay *number*

Tree delay

Units microseconds

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay-variation

Description Enter the link-delay-variation context

This container defines unidirectional link delay variation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation

Tree link-delay-variation

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-id

Description Enter the link-id context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id

Tree link-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local *number*

Description The value field of this sub-TLV contains 4 octets of Link Local Identifier followed by 4 octets of Link Remote Identifier.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id local *number*

Tree local

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote *number*

Description If the Link Remote Identifier is unknown, it is set to 0.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id remote *number*

Tree remote

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss

Description Enter the link-loss context

This container defines unidirectional link loss delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss *number*

Description Link packet loss as a percentage of the total traffic sent over a configurable interval. The basic unit is 0.000003%, where (2^24 - 2) is 50.331642%. This value s the highest packet-loss percentage that can be expressed (the assumption being that precision is more important on high-speed links than the ability to advertise loss rates greater than this, and that high- peed links with over 50% loss are unusable). Therefore, measured values that are larger than the field maximum SHOULD be encoded as the maximum value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss link-loss *number*

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-protection-type

Description Enter the link-protection-type context

ISIS LSDB parameters relating to the type of link protection offered.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type

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Tree link-protection-type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Link protection capabilities.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type type *keyword*

Tree type

Options

- extra-traffic

  If set the link has extra traffic protection. If the link is of type Extra Traffic, it means that the link is protecting another link or links. The LSPs on a link of this type will be lost if any of the links it is protecting fail.

- unprotected

  If set, the link is unprotected. If the link is of type Unprotected, it means that there is no other link protecting this link. The LSPs on a link of this type will be lost if the link fails.

- shared

  If set, the link has shared protection. If the link is of type Shared, it means that there are one or more disjoint links of type Extra Traffic that are protecting this link. These Extra Traffic links are shared between one or more links of type Shared.

- one-one

  If set, the link has dedicated 1:1 protection. If the link is of type Dedicated 1:1, it means that there is one dedicated disjoint link of type Extra Traffic that is protecting this link.

- plus-one

  If set, the link has dedicated 1+1 protection. If the link is of type Dedicated 1+1, it means that a dedicated disjoint link is protecting this link. However, the protecting link is not advertised in the link state database and is therefore not available for the routing of LSPs.

- enhanced

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If set the link has enhanced protection. If the link is of type Enhanced, it means that a protection scheme that is more reliable than Dedicated 1+1, e.g., 4 fiber BLSR/MS-SPRING, is being used to protect this link.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-reservable-link-bandwidth

Description Enter the max-reservable-link-bandwidth context

This container defines sub-TLV 10.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth

Tree max-reservable-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum amount of bandwidth that can be reserved in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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residual-bandwidth

Description Enter the residual-bandwidth context

This container defines unidirectional residual bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth

Tree residual-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description Residual bandwidth on a link,forwarding adjacency [RFC4206], or bundled link with units of bytes per second. For a link or forwarding adjacency, residual bandwidth is defined to be the Maximum Bandwidth [RFC5305] minus the bandwidth currently allocated to RSVP-TE label switched paths. For a bundled link, residual bandwidth is defined to be the sum of the component link residual bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srv6-adjacency-sids

Description Enter the srv6-adjacency-sids context

This container defines segment routing v6 Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids

Tree srv6-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sid address *string*

Description SRv6 Adjacency SID (END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Tree srv6-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 Adjacency SID (END.X) address

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

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Endpoint L3 cross-connect

- end-x-psp
  Endpoint L3 cross-connect with PSP flavor
- end-x-usp
  Endpoint L3 cross-connect with USP flavor
- end-x-psp-usp
  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd
  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd
  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd
  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd
  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only
  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua
  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp
  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors
- ua-usp
  Endpoint L3 cross-connect with NEXT-CSID and USP flavors
- ua-psp-usp
  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors
- ua-usd
  Endpoint L3 cross-connect with NEXT-CSID and USD flavor
- ua-psp-usd
  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors
- ua-usp-usd
  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors
- ua-psp-usp-usd
  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Persistent flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 Adj-SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the SRv6 Adj-SID for the purpose of load balancing

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sids

Description Enter the srv6-lan-adjacency-sids context

This container defines segment routing v6 LAN Adjacency SIDs

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids

Tree srv6-lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sid address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP-Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Tree srv6-lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 LAN Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect

- end-x-psp

  Endpoint L3 cross-connect with PSP flavor

- end-x-usp

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Endpoint L3 cross-connect with USP flavor

- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd

  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp

  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors
- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors
- ua-psp-usp

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors
- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor
- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors
- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors
- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Set flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN-Adj-Segment-ID value

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 LAN Adjacency SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances

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instance id *number* subtlvs subtlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unconstrained-lsp

Description Enter the unconstrained-lsp context

This container defines sub-TLV 23.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp

Tree unconstrained-lsp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Unconstrained TE LSP count(TE Label Switched Paths (LSPs) signalled with zero bandwidth).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp count *number*

Tree count

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unreserved-bandwidth

Description Enter the unreserved-bandwidth context

This container defines unreserved-bandwidth. The units are bytes per second.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth

Tree unreserved-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority priority *number*

Description Enter the setup-priority list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Tree setup-priority

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Setup priority level of 0 through 7 to be used by Unreserved Bandwidth sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Range 0 to 7

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The amount of bandwidth reservable in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second. The values correspond to the bandwidth that can be reserved with a setup priority of 0 through 7, arranged in increasing order with priority 0 occurring at the start of the sub-TLV, and priority 7 at the end of the sub-TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number* bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

utilized-bandwidth

Description Enter the utilized-bandwidth context

This container defines unidirectional utilized bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth

Tree utilized-bandwidth

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The bandwidth utilization on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, bandwidth utilization represents the actual utilization of the link (i.e., as measured by the advertising node). For a bundled link, bandwidth utilization is defined to be the sum of the component link bandwidth utilizations.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

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Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* extended-is-reachability neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hostname

Description Enter the hostname context

This container defines TLV 137.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* hostname

Tree hostname

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hostname *string*

Description Name of the node.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* hostname hostname *string*

Tree hostname

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-ids

Description Enter the instance-ids context

This container defines ISIS Instance Identifier TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* instance-ids

Tree instance-ids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-id instance-id *number*

Description A list of instance IDs received within TLV 7 within an IS-IS LSP. In the case that more than one instance of TLV 7 is included in the LSP, the instance IDs specified within the instances are concatenated within this list.

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* instance-ids instance-id instance-id *number*
Tree	instance-id
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-id *number*

Description	An Instance Identifier (IID) to uniquely identify an IS-IS instance. When the IID = 0, the list of supported ITIDs MUST NOT be present. An IID-TLV with IID = 0 MUST NOT appear in an SNP or LSP. When the TLV appears (with a non-zero IID) in an SNP or LSP, exactly one ITID. MUST be present indicating the topology with which the PDU is associated. If no ITIDs or multiple ITIDs are present or the IID is zero, then the PDU MUST be ignored.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* instance-ids instance-id instance-id *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology-id *number*

Description	Instance-Specific Topology Identifiers (ITIDs).
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* instance-ids instance-id instance-id *number* topology-id *number*
Tree	topology-id
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-external-reachability

Description Enter the ipv4-external-reachability context

This container defines list of IPv4 external reachability information.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability

Tree ipv4-external-reachability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description Enter the prefixes context

This container describes IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes

Tree prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string*

Description IPv4 external prefixes and reachability attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv4 prefix contained within reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-metric

Description Enter the default-metric context

This container defines ISIS Default Metric.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* default-metric

Tree default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Default-Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* default-metric flags *keyword*

Tree flags

Options

- internal

  When set to zero, indicates internal metrics.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS default metric value

This is a metric understood by every Intermediate system in the domain. Each circuit shall have a positive integral value assigned for this metric. The value may be associated with any objective function of the circuit, but by convention is intended to measure the capacity of the circuit for handling traffic, for example, its throughput in bits-per-second. Higher values indicate a lower capacity.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* default-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric

Description Enter the delay-metric context

This container defines the ISIS delay metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* delay-metric

Tree delay-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Delay Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* delay-metric flags *keyword*

Tree flags

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Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS delay metric value

This metric measures the transit delay of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value. Higher values indicate a longer transit delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* delay-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-metric

Description Enter the error-metric context

This container defines the ISIS error metric.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* error-metric

Tree error-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description IS-IS error metric flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* error-metric flags *keyword*

Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS error metric value

This metric measures the residual error probability of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a non-zero

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value. Higher values indicate a larger probability of undetected errors on the circuit.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* error-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expense-metric

Description Enter the expense-metric context

This container defines the ISIS expense metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* expense-metric

Tree expense-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Expense Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* expense-metric flags *keyword*

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Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS expense metric value

This metric measures the monetary cost of utilising the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value1). Higher values indicate a larger monetary expense.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* expense-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit

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Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-external-reachability prefixes prefix prefix *string* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-addresses

Description Enter the ipv4-interface-addresses context

This container defines TLV 132.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-interface-addresses

Tree ipv4-interface-addresses

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description IPv4 address(es) of the interface corresponding to the SNPA over which this PDU is to be transmitted.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-interface-addresses address *string*

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Tree	address
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-internal-reachability

Description	Enter the ipv4-internal-reachability context This container defines list of IPv4 internal reachability information.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability
Tree	ipv4-internal-reachability
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description	Enter the prefixes context This container describes IS prefixes.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes
Tree	prefixes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string*

Description IPv4 prefixes and internal reachability attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv4 prefix contained within reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-metric

Description Enter the default-metric context

This container defines ISIS Default Metric.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* default-metric

Tree default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Default-Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* default-metric flags *keyword*

Tree flags

Options

- internal

  When set to zero, indicates internal metrics.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS default metric value

This is a metric understood by every Intermediate system in the domain. Each circuit shall have a positive integral value assigned for this metric. The value may be associated with any objective function of the circuit, but by convention is intended to measure the capacity of the circuit for handling traffic, for example, its throughput in bits-per-second. Higher values indicate a lower capacity.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* default-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric

Description Enter the delay-metric context

This container defines the ISIS delay metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* delay-metric

Tree delay-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Delay Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* delay-metric flags *keyword*

Tree flags

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Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS delay metric value

This metric measures the transit delay of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value. Higher values indicate a longer transit delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* delay-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-metric

Description Enter the error-metric context

This container defines the ISIS error metric.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* error-metric

Tree error-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description IS-IS error metric flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* error-metric flags *keyword*

Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS error metric value

This metric measures the residual error probability of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a non-zero

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value. Higher values indicate a larger probability of undetected errors on the circuit.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* error-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expense-metric

Description Enter the expense-metric context

This container defines the ISIS expense metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* expense-metric

Tree expense-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Expense Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* expense-metric flags *keyword*

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Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS expense metric value

This metric measures the monetary cost of utilising the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value1). Higher values indicate a larger monetary expense.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* expense-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit

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Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-internal-reachability prefixes prefix prefix *string* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-srlgs

Description Enter the ipv4-srlgs context

This container defines ISIS SRLG TLV 138.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs

Tree ipv4-srlgs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-srlg instance-number *number*

Description Instance of the IPv4 SRLG TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number*

Tree ipv4-srlg

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-number *number*

Description An arbitrary unsigned 32-bit integer used to disambiguate the instance of TLV 138. The instance identifier is synthesised by the system and may be renumbered for the same SRLG definition in subsequent advertised LSPs if (and only if) the entire list of SRLGs is replaced.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description SRLG flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* flags *keyword*

Tree flags

Options

- numbered

  When set, the interface is numbered, whereas if unset indicates that the interface is unnumbered.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-address *string*

Description IPv4 interface address.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* ipv4-interface-address *string*

Tree ipv4-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-neighbor-address *string*

Description IPv4 neighbor address.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* ipv4-neighbor-address *string*

Tree ipv4-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

psn-number *number*

Description Pseudonode number if the neighbor is on a LAN interface.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* psn-number *number*

Tree psn-number

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srlg-value *number*

Description List of SRLG values.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* srlg-value *number*

Tree srlg-value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description Neighbor system ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-srlgs ipv4-srlg instance-number *number* system-id *string*

Tree system-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-te-router-id

Description Enter the ipv4-te-router-id context

This container defines TLV 134.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-te-router-id

Tree ipv4-te-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 Traffic Engineering router ID of the node. For traffic engineering, it guarantees that we have a single stable address that can always be referenced in a path that will be reachable from multiple hops away, regardless of the state of the node's interfaces.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv4-te-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-interface-addresses

Description Enter the ipv6-interface-addresses context

This container defines TLV 232.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-interface-addresses

Tree ipv6-interface-addresses

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description IPv6 interface addresses of the node. MUST contain only the non-link-local IPv6 addresses assigned to the IS.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-interface-addresses address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-reachability

Description Enter the ipv6-reachability context

This container defines list of IPv6 reachability information.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability

Tree ipv6-reachability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description Enter the prefixes context

This container describes IS prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes

Tree prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string*

Description This list defines IPv6 extended prefix attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv6 prefix contained within extended reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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s-bit *boolean*

Description The sub-tlv present bit. If UNSET, the octets of Sub-TLVs are not present. Otherwise, the bit is set and the octet following the prefix will contain the length of the Sub-TLV portion of the structure.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* s-bit *boolean*

Tree s-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes IS prefix sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

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This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags

Tree flags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Additional prefix reachability flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags flags *keyword*

Tree flags

Options

- external-flag

  External prefix flag. Set if the prefix has been redistributed from another protocol. This includes the case where multiple virtual routers are supported and the source of the redistributed prefix is another IS-IS instance.

- readvertisement-flag

  Readvertisement flag. Set when the prefix has been leaked from one level to another (upwards or downwards).

- node-flag

  Node flag. Set when the prefix identifies the advertising router, i.e., the prefix is a host prefix advertising a globally reachable address typically associated with a loopback address.

- elc-flag

  Elc flag. Set for local host prefix of the originating node if it supports ELC on all interfaces

- anycast-flag

  Anycast flag. Set if the prefix is anycast

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flags type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metrics

Description Enter the flexible-algorithm-prefix-metrics context

This list defines sub-TLV 6 for Flexible Algorithm prefix metrics.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics

Tree flexible-algorithm-prefix-metrics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metric algorithm *number*

Description Enter the flexible-algorithm-prefix-metric list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Tree flexible-algorithm-prefix-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Flexible Algorithm number.

Single octet value between 128 and 255 inclusive.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description Flexible Algorithm prefix metric value.

4 octets of metric information.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4-source-router-id

Description Enter the ipv4-source-router-id context

This container defines sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id

Tree ipv4-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 Source router ID address. In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv4-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-source-router-id

Description Enter the ipv6-source-router-id context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id

Tree ipv6-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv6 Source router ID address.

In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* ipv6-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

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Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sids

Description Enter the prefix-sids context

This container defines segment routing extensions for prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids

Tree prefix-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid value *number*

Description Prefix Segment-ID list. IGP-Prefix Segment is an IGP segment attached to an IGP prefix. An IGP-Prefix Segment is global (unless explicitly advertised otherwise) within the SR/IGP domain.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Tree prefix-sid

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description IGP Prefix-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Prefix-SID algorithm to be used for path computation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags *keyword*

Description Flags associated with Prefix Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* flags *keyword*

Tree flags

Options

- readvertisement

  Readvertisment flag. When set, the prefix to which this Prefix-SID is attached, has been propagated by the router either from another level or from redistribution.

- node

  Node flag. When set, the Prefix-SID refers to the router identified by the prefix. Typically, the N-Flag is set on Prefix-SIDs attached to a router loopback address.

- no-php

  Penultimate-Hop-Popping flag. When set, then the penultimate hop MUST NOT pop the Prefix-SID before delivering the packet to the node that advertised the Prefix-SID.

- explicit-null

  Explicit-Null flag. When set, any upstream neighbor of the Prefix-SID originator MUST replace the Prefix-SID with a Prefix-SID having an Explicit-NULL value (0 for IPv4 and 2 for IPv6) before forwarding the packet.

- value

  Value flag. When set, the Prefix-SID carries a value (instead of an index). By default the flag is UNSET.

- local

  Local flag. When set, the value/index carried by the Prefix-SID has local significance. By default the flag is UNSET.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tag

Description Enter the tag context

This container defines sub-TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag

Tree tag

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag32 *number*

Description List of 32-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag tag32 *number*

Tree tag32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64

Description Enter the tag64 context

This container defines sub-TLV 2.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag64

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64 *number*

Description List of 64-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* subtlvs subtlv type *identityref* tag64 tag64 *number*

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* undefined-subtlvs

Tree undefined-subtlvs

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description	Sub-TLVs that are not defined in the model or not recognised by system.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number*
Tree	undefined-subtlv
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description	TLV Type.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit. Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

x-bit *boolean*

Description The external bit. Set when the prefix was distributed into IS-IS from another routing protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-reachability prefixes prefix prefix *string* x-bit *boolean*

Tree x-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-srlgs

Description Enter the ipv6-srlgs context

This container defines ISIS SRLG TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs

Tree ipv6-srlgs

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-srlg instance-number *number*

Description Instance of the IPv6 SRLG TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number*

Tree ipv6-srlg

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-number *number*

Description An arbitrary unsigned 32-bit integer used to disambiguate the instance of TLV 138. The instance identifier is synthesised by the system and may be renumbered for the same SRLG definition in subsequent advertised LSPs if (and only if) the entire list of SRLGs is replaced.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags *keyword*

Description IPv6 SRLG flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* flags *keyword*

Tree flags

Options

- na

  When set, the IPv6 neighbour address is included, whereas if unset, it is omitted

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-interface-address *string*

Description IPv6 interface address or Link Local Identifier.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* ipv6-interface-address *string*

Tree ipv6-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-neighbor-address *string*

Description IPv6 neighbor address or Link Remote Identifier.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* ipv6-neighbor-address *string*

Tree ipv6-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

psn-number *number*

Description Pseudonode number if the neighbor is on a LAN interface.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* psn-number *number*

Tree psn-number

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srlg-value *number*

Description SRLG values.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* srlg-value *number*

Tree srlg-value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description Neighbor system ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-srlgs ipv6-srlg instance-number *number* system-id *string*

Tree system-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-te-router-id

Description Enter the ipv6-te-router-id context

This container defines TLV 140.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-te-router-id

Tree ipv6-te-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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router-id *string*

Description IPv6 Traffic Engineering router ID of the node. For traffic engineering, it guarantees that we have a single stable address that can always be referenced in a path that will be reachable from multiple hops away, regardless of the state of the node's interfaces.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* ipv6-te-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-alias-id

Description Enter the is-alias-id context

This container defines the IS-Alias TLV which allows extension-capable ISs to recognize the Originating System of an Extended LSP set. It identifies the Normal system-id of the Originating System.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-alias-id

Tree is-alias-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alias-id *string*

Description List of alias ID(s).

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-alias-id alias-id *string*

Tree alias-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-reachability

Description Enter the is-reachability context

This container describes list of ISIS neighbors and attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability

Tree is-reachability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description Enter the neighbors context

This container describes IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors

Tree neighbors

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor system-id *string*

Description	IS reachability neighbor attributes.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string*
Tree	neighbor
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description	System-ID of IS neighbor.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string*
String Length	14
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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default-metric

Description Enter the default-metric context

This container defines ISIS Default Metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* default-metric

Tree default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Default-Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* default-metric flags *keyword*

Tree flags

Options

- internal

  When set to zero, indicates internal metrics.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS default metric value

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This is a metric understood by every Intermediate system in the domain. Each circuit shall have a positive integral value assigned for this metric. The value may be associated with any objective function of the circuit, but by convention is intended to measure the capacity of the circuit for handling traffic, for example, its throughput in bits-per-second. Higher values indicate a lower capacity.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* default-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric

Description Enter the delay-metric context

This container defines the ISIS delay metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* delay-metric

Tree delay-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description ISIS Delay Metric Flags.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* delay-metric flags *keyword*

Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS delay metric value

This metric measures the transit delay of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value. Higher values indicate a longer transit delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* delay-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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error-metric

Description Enter the error-metric context

This container defines the ISIS error metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* error-metric

Tree error-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description IS-IS error metric flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* error-metric flags *keyword*

Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description ISIS error metric value

This metric measures the residual error probability of the associated circuit. It is an optional metric, which if assigned to a circuit shall have a non-zero value. Higher values indicate a larger probability of undetected errors on the circuit.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* error-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expense-metric

Description Enter the expense-metric context

This container defines the ISIS expense metric.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* expense-metric

Tree expense-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags *keyword*

Description ISIS Expense Metric Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* expense-metric flags *keyword*

Tree flags

Options

- internal

  When this flag is not set, internal metrics are in use.

- unsupported

  When this flag (referred to as the S-bit) is set, then the metric is unsupported.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS expense metric value

This metric measures the monetary cost of utilising the associated circuit. It is an optional metric, which if assigned to a circuit shall have a positive integral value1). Higher values indicate a larger monetary expense.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* is-reachability neighbors neighbor system-id *string* expense-metric metric *number*

Tree metric

Range 1 to 63

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

isis-neighbor-attribute

Description Enter the isis-neighbor-attribute context

This container defines list of ISIS topology neighbors for extended ISIS LSP (multiple system IDs).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute

Tree isis-neighbor-attribute

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description Enter the neighbors context

This container describes IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors

Tree neighbors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor system-id *string*

Description This list describes ISIS extended neighbors and reachability attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string*

Tree neighbor

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System-id of the neighbor.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string*

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instances

Description Enter the instances context

This list contains all instances of an adjacency between the originating IS and the remote IS. Multiple instances are used where there are parallel adjacencies between two systems.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances

Tree instances

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance id *number*

Description Instance of the TLV to the remote IS neighbor.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number*

Tree instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Unique identifier for the instance of the TLV for the IS neighbor. The instance ID is not required to be consistent across across readvertisements of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* metric *number*

Tree metric

Range 1 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes IS Neighbor sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sids

Description Enter the adjacency-sids context

This container defines segment routing adjacency SIDs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids

Tree adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Tree adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description Enter the available-bandwidth context

This container defines unidirectional lavailable bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth

Tree available-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The available bandwidth on a link, forwarding adjacency, or bundled link in IEEE floating-point format with units of bytes per second. For a link or forwarding adjacency, available bandwidth is defined to be residual bandwidth minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

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- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraints

Description Enter the bandwidth-constraints context

This container defines bandwidth-constraints. For DS-TE, the existing Maximum Reservable link bandwidth parameter is retained, but its semantics is generalized and interpreted as the aggregate bandwidth constraint across all Class-Types

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints

Tree bandwidth-constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraint model-id *number*

Description List of the Bandwidth Constraints sub-TLV instances present in the TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Tree bandwidth-constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

model-id *number*

Description Identifier for the Bandwidth Constraints Model currently in use by the LSR initiating the IGP advertisement.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraints

Description Enter the constraints context

Constraints contained within the Bandwidth Constraints sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints

Tree constraints

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint constraint-id *number*

Description List of the constraints within the Bandwidth Constraints sub-TLV. The BC0 level is indicated by the constraint-id leaf being set to 0, with BCN being indicated by constraint-id N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Tree constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint-id *number*

Description Unique reference for the bandwidth constraint level. BC0 is indicated by this leaf being set to zero, with BCN represented by this leaf being set to N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The bandwidth constraint, expressed as a 32-bit IEEE floating point number expressed in bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number* bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group extended-admin-group *number*

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-address

Description Enter the ipv4-interface-address context

This container defines sub-TLV 6.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address

Tree ipv4-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description A 4-octet IPv4 address for the interface described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-neighbor-address

Description Enter the ipv4-neighbor-address context

This container defines sub-TLV 8.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address

Tree ipv4-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description A single IPv4 address for a neighboring router on this link. This sub-TLV can occur multiple times.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-interface-address

Description Enter the ipv6-interface-address context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address

Tree ipv6-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for the interface described by the containing Extended IS Reachability TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address address *string*

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Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-neighbor-address

Description Enter the ipv6-neighbor-address context

This container defines sub-TLV 13.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address

Tree ipv6-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for a neighboring router on the link described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sids

Description Enter the lan-adjacency-sids context

This container defines segment routing LAN adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids

Tree lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Tree lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description LAN Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

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- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN- Adj-Segment-ID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* weight *number*

Tree weight

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-attributes

Description Enter the link-attributes context

This container defines link-attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes

Tree link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-protection *keyword*

Description Link local-protection attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes local-protection *keyword*

Tree local-protection

Options

- local-protection

  If set, local protection is available for the link.

- link-excluded

  If set, the link is excluded from local protection.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay

Description Enter the link-delay context

This container defines unidirectional link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay

Tree link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay value (in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay-variation

Description Enter the link-delay-variation context

This container defines unidirectional link delay variation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation

Tree link-delay-variation

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delay *number*

Description Average link delay between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-id

Description Enter the link-id context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id

Tree link-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local *number*

Description The value field of this sub-TLV contains 4 octets of Link Local Identifier followed by 4 octets of Link Remote Identifier.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id local *number*

Tree local

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote *number*

Description If the Link Remote Identifier is unknown, it is set to 0.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id remote *number*

Tree remote

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss

Description Enter the link-loss context

This container defines unidirectional link loss delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss

Tree link-loss

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss *number*

Description Link packet loss as a percentage of the total traffic sent over a configurable interval. The basic unit is 0.000003%, where (2^24 - 2) is 50.331642%. This value s the highest packet-loss percentage that can be expressed (the assumption being that precision is more important on high-speed links than the ability to advertise loss rates greater than this, and that high- peed links with over 50% loss are unusable). Therefore, measured values that are larger than the field maximum SHOULD be encoded as the maximum value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss link-loss *number*

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-protection-type

Description Enter the link-protection-type context

ISIS LSDB parameters relating to the type of link protection offered.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type

Tree link-protection-type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Link protection capabilities.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type type *keyword*

Tree type

Options

- extra-traffic

  If set the link has extra traffic protection. If the link is of type Extra Traffic, it means that the link is protecting another link or links. The LSPs on a link of this type will be lost if any of the links it is protecting fail.

- unprotected

  If set, the link is unprotected. If the link is of type Unprotected, it means that there is no other link protecting this link. The LSPs on a link of this type will be lost if the link fails.

- shared

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If set, the link has shared protection. If the link is of type Shared, it means that there are one or more disjoint links of type Extra Traffic that are protecting this link. These Extra Traffic links are shared between one or more links of type Shared.

- one-one

  If set, the link has dedicated 1:1 protection. If the link is of type Dedicated 1:1, it means that there is one dedicated disjoint link of type Extra Traffic that is protecting this link.

- plus-one

  If set, the link has dedicated 1+1 protection. If the link is of type Dedicated 1+1, it means that a dedicated disjoint link is protecting this link. However, the protecting link is not advertised in the link state database and is therefore not available for the routing of LSPs.

- enhanced

  If set the link has enhanced protection. If the link is of type Enhanced, it means that a protection scheme that is more reliable than Dedicated 1+1, e.g., 4 fiber BLSR/MS-SPRING, is being used to protect this link.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). It is encoded in 32 bits in IEEE floating point format. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-reservable-link-bandwidth

Description Enter the max-reservable-link-bandwidth context

This container defines sub-TLV 10.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth

Tree max-reservable-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The maximum amount of bandwidth that can be reserved in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. It is encoded in 32 bits in IEEE floating point format. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

residual-bandwidth

Description Enter the residual-bandwidth context

This container defines unidirectional residual bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth

Tree residual-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description Residual bandwidth on a link,forwarding adjacency [RFC4206], or bundled link in IEEE floating-point format with units of bytes per second. For a link

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or forwarding adjacency, residual bandwidth is defined to be the Maximum Bandwidth [RFC5305] minus the bandwidth currently allocated to RSVP-TE label switched paths. For a bundled link, residual bandwidth is defined to be the sum of the component link residual bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sids

Description Enter the srv6-adjacency-sids context

This container defines segment routing v6 Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids

Tree srv6-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sid address *string*

Description SRv6 Adjacency SID (END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional

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adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Tree srv6-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 Adjacency SID (END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* algorithm *number*

Tree algorithm

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect
- end-x-psp

  Endpoint L3 cross-connect with PSP flavor
- end-x-usp

  Endpoint L3 cross-connect with USP flavor
- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd

  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp

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Endpoint L3 cross-connect with NEXT-CSID and PSP flavors

- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors

- ua-psp-usp

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

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Persistent flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 Adj-SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the SRv6 Adj-SID for the purpose of load balancing

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sids

Description Enter the srv6-lan-adjacency-sids context

This container defines segment routing v6 LAN Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids

Tree srv6-lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sid address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP-Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances

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instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Tree srv6-lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 LAN Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect
- end-x-psp

  Endpoint L3 cross-connect with PSP flavor
- end-x-usp

  Endpoint L3 cross-connect with USP flavor
- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd

  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp

  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors
- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors
- ua-psp-usp

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Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Set flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN-Adj-Segment-ID value

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 LAN Adjacency SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric

Tree te-default-metric

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unconstrained-lsp

Description Enter the unconstrained-lsp context

This container defines sub-TLV 23.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp

Tree unconstrained-lsp

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Unconstrained TE LSP count(TE Label Switched Paths (LSPs) signalled with zero bandwidth).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp count *number*

Tree count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

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Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unreserved-bandwidth

Description Enter the unreserved-bandwidth context

This container defines unreserved-bandwidth. The units are bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth

Tree unreserved-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority priority *number*

Description Enter the setup-priority list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Tree setup-priority

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Setup priority level of 0 through 7 to be used by Unreserved Bandwidth sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Range 0 to 7

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The amount of bandwidth reservable in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. It contains eight 32-bit IEEE floating point numbers(one for each priority). The units are bytes (not bits!) per second. The values correspond to the bandwidth that can be reserved with a setup priority of 0 through 7, arranged in increasing order with priority 0 occurring at the start of the sub-TLV, and priority 7 at the end of the sub-TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number* bandwidth *binary*

Tree bandwidth

String Length 4

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Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

utilized-bandwidth

Description Enter the utilized-bandwidth context

This container defines unidirectional utilized bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth

Tree utilized-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The bandwidth utilization on a link, forwarding adjacency, or bundled link in IEEE floating-point format with units of bytes per second. For a link or forwarding adjacency, bandwidth utilization represents the actual utilization of the link (i.e., as measured by the advertising node). For a bundled link, bandwidth utilization is defined to be the sum of the component link bandwidth utilizations.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth bandwidth *binary*

Tree bandwidth

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String Length	4
Units	bytes per second
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description	The type of subTLV being described. The type of subTLV is expressed as a canonical name.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth type *identityref*
Tree	type
Options	• is-reachability-subtlvs-type Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type. • ip-reachability-subtlvs-type Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type. • router-capability-subtlvs-type Base identity for an ISIS TLV 242 SUB-TLV type. • application-specific-link-attributes-subtlvs-type Base identity for an ISIS TLV 16 SUB-TLV type.
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* isis-neighbor-attribute neighbors neighbor system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-buffer-size

Description Enter the lsp-buffer-size context

This container defines TLV 14 - the LSP Buffer Size TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* lsp-buffer-size

Tree lsp-buffer-size

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size *number*

Description The maximum MTU that the advertising system can receive, expressed in bytes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* lsp-buffer-size size *number*

Tree size

Units bytes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mt-ipv4-reachability

Description Enter the mt-ipv4-reachability context

This container defines list of IPv4 reachability Information in multi-topology environment.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability

Tree mt-ipv4-reachability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description Enter the prefixes context

This container describes IS prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes

Tree prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string* mt-id *number*

Description IPv4 prefixes that are contained within MT reachability TLV.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number*

Tree prefix

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv4 prefix contained within extended reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-id *number*

Description Multi-topology ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number*

Range 0 to 4095

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-bit *boolean*

Description The Sub-TLV present bit. If UNSET, the octets of Sub-TLVs are not present. Otherwise, the bit is set and the octet following the prefix will contain the length of the Sub-TLV portion of the structure.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* s-bit *boolean*

Tree s-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subtlvs

Description Enter the subtlvs context

This container describes IS prefix sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags

Tree flags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Additional prefix reachability flags.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags flags *keyword*

Tree flags

Options

- external-flag

  External prefix flag. Set if the prefix has been redistributed from another protocol. This includes the case where multiple virtual routers are supported and the source of the redistributed prefix is another IS-IS instance.

- readvertisement-flag

  Readvertisement flag. Set when the prefix has been leaked from one level to another (upwards or downwards).

- node-flag

  Node flag. Set when the prefix identifies the advertising router, i.e., the prefix is a host prefix advertising a globally reachable address typically associated with a loopback address.

- elc-flag

  Elc flag. Set for local host prefix of the originating node if it supports ELC on all interfaces

- anycast-flag

  Anycast flag. Set if the prefix is anycast

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

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Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metrics

Description Enter the flexible-algorithm-prefix-metrics context

This list defines sub-TLV 6 for Flexible Algorithm prefix metrics.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics

Tree flexible-algorithm-prefix-metrics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metric algorithm *number*

Description Enter the flexible-algorithm-prefix-metric list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv

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type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Tree flexible-algorithm-prefix-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Flexible Algorithm number.

Single octet value between 128 and 255 inclusive.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Flexible Algorithm prefix metric value.

4 octets of metric information.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-source-router-id

Description Enter the ipv4-source-router-id context

This container defines sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id

Tree ipv4-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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router-id *string*

Description IPv4 Source router ID address. In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-source-router-id

Description Enter the ipv6-source-router-id context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id

Tree ipv6-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv6 Source router ID address.

In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id router-id *string*

Tree router-id

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sids

Description Enter the prefix-sids context

This container defines segment routing extensions for prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids

Tree prefix-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid value *number*

Description Prefix Segment-ID list. IGP-Prefix Segment is an IGP segment attached to an IGP prefix. An IGP-Prefix Segment is global (unless explicitly advertised otherwise) within the SR/IGP domain.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Tree prefix-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description IGP Prefix-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Prefix-SID algorithm to be used for path computation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Prefix Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* flags *keyword*

Tree flags

Options

- readvertisement

  Readvertisment flag. When set, the prefix to which this Prefix-SID is attached, has been propagated by the router either from another level or from redistribution.

- node

  Node flag. When set, the Prefix-SID refers to the router identified by the prefix. Typically, the N-Flag is set on Prefix-SIDs attached to a router loopback address.

- no-php

  Penultimate-Hop-Popping flag. When set, then the penultimate hop MUST NOT pop the Prefix-SID before delivering the packet to the node that advertised the Prefix-SID.

- explicit-null

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Explicit-Null flag. When set, any upstream neighbor of the Prefix-SID originator MUST replace the Prefix-SID with a Prefix-SID having an Explicit-NULL value (0 for IPv4 and 2 for IPv6) before forwarding the packet.

- value

  Value flag. When set, the Prefix-SID carries a value (instead of an index). By default the flag is UNSET.

- local

  Local flag. When set, the value/index carried by the Prefix-SID has local significance. By default the flag is UNSET.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

This container defines sub-TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag

Tree tag

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag32 *number*

Description List of 32-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling

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redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag tag32 *number*

Tree tag32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64

Description Enter the tag64 context

This container defines sub-TLV 2.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag64

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64 *number*

Description List of 64-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag64 tag64 *number*

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit. Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv4-reachability prefixes prefix prefix *string* mt-id *number* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-ipv6-reachability

Description Enter the mt-ipv6-reachability context

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This container defines list of IPv6 reachability information in multi - topology environment.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability

Tree mt-ipv6-reachability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefixes

Description Enter the prefixes context

This container describes IS prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes

Tree prefixes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix prefix *string* mt-id *number*

Description List of IPv6 prefixes contained within MT reachability TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number*

Tree prefix

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description IPv6 prefix contained within extended reachability TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-id *number*

Description Multi-topology ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number*

Range 0 to 4095

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-bit *boolean*

Description The sub-tlv present bit. If UNSET, the octets of Sub-TLVs are not present. Otherwise, the bit is set and the octet following the prefix will contain the length of the Sub-TLV portion of the structure.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* s-bit *boolean*

Tree s-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes IS prefix sub-TLVs.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

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Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags

Tree flags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Additional prefix reachability flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags flags *keyword*

Tree flags

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Options

- external-flag

  External prefix flag. Set if the prefix has been redistributed from another protocol. This includes the case where multiple virtual routers are supported and the source of the redistributed prefix is another IS-IS instance.

- readvertisement-flag

  Readvertisement flag. Set when the prefix has been leaked from one level to another (upwards or downwards).

- node-flag

  Node flag. Set when the prefix identifies the advertising router, i.e., the prefix is a host prefix advertising a globally reachable address typically associated with a loopback address.

- elc-flag

  Elc flag. Set for local host prefix of the originating node if it supports ELC on all interfaces

- anycast-flag

  Anycast flag. Set if the prefix is anycast

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flags type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

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Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metrics

Description Enter the flexible-algorithm-prefix-metrics context

This list defines sub-TLV 6 for Flexible Algorithm prefix metrics.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics

Tree flexible-algorithm-prefix-metrics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-prefix-metric algorithm *number*

Description Enter the flexible-algorithm-prefix-metric list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Tree flexible-algorithm-prefix-metric

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Flexible Algorithm number.

Single octet value between 128 and 255 inclusive.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number*

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description Flexible Algorithm prefix metric value.

4 octets of metric information.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv

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type *identityref* flexible-algorithm-prefix-metrics flexible-algorithm-prefix-metric algorithm *number* type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-source-router-id

Description Enter the ipv4-source-router-id context

This container defines sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id

Tree ipv4-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 Source router ID address. In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-

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IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv4-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-source-router-id

Description Enter the ipv6-source-router-id context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id

Tree ipv6-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv6 Source router ID address.

In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* ipv6-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sids

Description Enter the prefix-sids context

This container defines segment routing extensions for prefixes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids

Tree prefix-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid value *number*

Description Prefix Segment-ID list. IGP-Prefix Segment is an IGP segment attached to an IGP prefix. An IGP-Prefix Segment is global (unless explicitly advertised otherwise) within the SR/IGP domain.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Tree prefix-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description IGP Prefix-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Prefix-SID algorithm to be used for path computation.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Prefix Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* prefix-sids prefix-sid value *number* flags *keyword*

Tree flags

Options

- readvertisement

  Readvertisment flag. When set, the prefix to which this Prefix-SID is attached, has been propagated by the router either from another level or from redistribution.

- node

  Node flag. When set, the Prefix-SID refers to the router identified by the prefix. Typically, the N-Flag is set on Prefix-SIDs attached to a router loopback address.

- no-php

  Penultimate-Hop-Popping flag. When set, then the penultimate hop MUST NOT pop the Prefix-SID before delivering the packet to the node that advertised the Prefix-SID.

- explicit-null

  Explicit-Null flag. When set, any upstream neighbor of the Prefix-SID originator MUST replace the Prefix-SID with a Prefix-SID having an Explicit-NULL value (0 for IPv4 and 2 for IPv6) before forwarding the packet.

- value

  Value flag. When set, the Prefix-SID carries a value (instead of an index). By default the flag is UNSET.

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- local

  Local flag. When set, the value/index carried by the Prefix-SID has local significance. By default the flag is UNSET.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag

Description Enter the tag context

This container defines sub-TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag

Tree tag

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag32 *number*

Description List of 32-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag tag32 *number*

Tree tag32

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64

Description Enter the tag64 context

This container defines sub-TLV 2.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag64

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64 *number*

Description List of 64-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* subtlvs subtlv type *identityref* tag64 tag64 *number*

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-down *boolean*

Description The up/down bit. Set if a prefix is advertised from a higher level to a lower level (e.g., level 2 to level 1), indicating that the prefix has traveled down the hierarchy. Prefixes that have the up/down bit set may only be advertised down the hierarchy, i.e., to lower levels. When a prefix is first injected into IS-IS, the bit is UNSET.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* up-down *boolean*

Tree up-down

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

x-bit *boolean*

Description The external bit. Set when the prefix was distributed into IS-IS from another routing protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-ipv6-reachability prefixes prefix prefix *string* mt-id *number* x-bit *boolean*

Tree x-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-isis-neighbor-attribute

Description Enter the mt-isis-neighbor-attribute context

This container defines list of ISIS multi-topology neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute

Tree mt-isis-neighbor-attribute

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description Enter the neighbors context

MT-IS neigbor attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors

Tree neighbors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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neighbor mt-id *number* system-id *string*

Description	This container describes IS neighbors.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*
Tree	neighbor
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-id *number*

Description	Identifier of a topology being announced.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*
Range	0 to 4095
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description	System-id of the IS neighbor.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*
String Length	14
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instances

Description Enter the instances context

This list contains all instances of an adjacency between the originating and remote IS. Multiple instances are used to indicate where there are arallel adjacencies between systems.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances

Tree instances

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance id *number*

Description Instance of TLV-222 between the originating and remote IS.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number*

Tree instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Unique identifier for the TLV instance for the neighbor. The ID is not required to be consistent across readvertisements of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

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This container describes IS Neighbor sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

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- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sids

Description Enter the adjacency-sids context

This container defines segment routing adjacency SIDs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids

Tree adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Tree adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

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- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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application-specific-link-attributes

Description Enter the application-specific-link-attributes context

This grouping is to display application specific link attributes (sub-TLV 238).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes

Tree application-specific-link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-specific-link-attribute instance *number*

Description List of Application Specific Link Attributes. Sub-TLV = 16.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*

Tree application-specific-link-attribute

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance *number*

Description Unique instance identifier for the application-specific link attribute entry.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm *boolean*

Description	X bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* flexible-algorithm *boolean*
Tree	flexible-algorithm
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

legacy *boolean*

Description	When the legacy flag is set, all of the applications specified in the bit mask MUST use the legacy advertisements for the corresponding link found in TLVs 22, 23, 25, 141, 222, and 223, in TLV 138, or in TLV 139 as appropriate.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* legacy *boolean*
Tree	legacy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loop-free-alternate *boolean*

Description	F bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-

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specific-link-attributes application-specific-link-attribute instance *number* loop-free-alternate *boolean*

Tree loop-free-alternate

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te *boolean*

Description R bit is set in the Standard Application Identifier Bit Mask

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* rsvp-te *boolean*

Tree rsvp-te

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-policy *boolean*

Description S bit is set in the Standard Application Identifier Bit Mask

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sr-policy *boolean*

Tree sr-policy

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description A bit mask representing the administrative groups to which the interface belongs. Sub-Sub-TLV = 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs admin-group *number*

Tree admin-group

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-link-bandwidth *number*

Description The (LAG aware) bandwidth of the interface to the neighbor. Sub-Sub-TLV = 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs maximum-link-bandwidth *number*

Tree maximum-link-bandwidth

Units bytes-per-second

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-max-unidirectional-link-delay

Description Enter the min-max-unidirectional-link-delay context

The minimum and maximum delay between two directly connected IS-IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay

Tree min-max-unidirectional-link-delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anomolous *boolean*

Description If the A bit is cleared, the values represent steady-state link performance.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay anomolous *boolean*

Tree anomolous

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum forward-path delay (from the advertising router to the remote neighbor)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay max-delay *number*

Tree max-delay

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Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description	Minimum forward-path delay (from the advertising router to the remote neighbor)
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay min-delay *number*
Tree	min-delay
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description	List of subsubTLV types in the LSDB for the specified TLV.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*
Tree	sub-sub-tlv
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subsubTLV being described. The type of subsubTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- is-reachability-admin-group

  sub-TLV 3. Administrative group(color).
- is-reachability-link-id

  sub-TLV 4. Link Local/Remote Identifiers.
- is-reachability-ipv4-interface-address

  sub-TLV 6. IPv4 Interface Address.
- is-reachability-ipv4-neighbor-address

  sub-TLV 8. IPv4 Neighbor Address.
- is-reachability-max-link-bandwidth

  sub-TLV 9. Maximum Link Bandwidth.
- is-reachability-max-reservable-bandwidth

  sub-TLV 10. Maximum Reservable Bandwidth.
- is-reachability-unreserved-bandwidth

  sub-TLV 11. Unreserved bandwidth.
- is-reachability-ipv6-interface-address

  sub-TLV 12. IPv6 Interface Address.
- is-reachability-ipv6-neighbor-address

  sub-TLV 13. IPv6 Neighbor Address.
- is-reachability-extended-admin-group

  sub-TLV 14. Extended Administrative Group.
- is-reachability-te-default-metric

  sub-TLV 18. TE Default Metric.
- is-reachability-link-attributes

  sub-TLV 19. Link Attributes.
- is-reachability-link-protection-type

  sub-TLV 20. Link Protection Type.
- is-reachability-bandwidth-constraints

  sub-TLV 22. Bandwidth Constraints.

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- is-reachability-unconstrained-lsp
  sub-TLV 23. Unconstrained LSP.
- is-reachability-adj-sid
  sub-TLV 31. Adjacency Segment Identifier.
- is-reachability-adj-lan-sid
  sub-TLV 32. Adjacency LAN Segment Identifier.
- is-reachability-link-delay
  sub-TLV 33. Unidirectional Link Delay.
- is-reachability-min-max-link-delay
  sub-TLV 34. Min/Max Unidirectional Link Delay.
- is-reachability-link-delay-variation
  sub-TLV 35. Unidirectional Link Delay Variation.
- is-reachability-link-loss
  sub-TLV 36. Unidirectional Link Loss Delay.
- is-reachability-residual-bandwidth
  sub-TLV 37. Unidirectional Residual Bandwidth.
- is-reachability-available-bandwidth
  sub-TLV 38. Unidirectional Available Bandwidth.
- is-reachability-utilized-bandwidth
  sub-TLV 39. Unidirectional Utilized Bandwidth.
- is-reachability-application-specific-link-attributes
  Base identity for an ISIS TLV 16 SUB-TLV type.
- srv6-adj-sid
  sub-TLV 43. SRv6 END.X SID
- srv6-adj-lan-sid
  sub-TLV 44. SRv6 LAN END.X SID

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group

Description Enter the admin-group context

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This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

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This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group extended-admin-group *number*

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). It is encoded in 32 bits in IEEE floating point format. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*

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instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*

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instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric *number*

Description An administratively assigned metric used as an alternative to the normal SPF metric based (typically) on link bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-

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specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs te-default-metric *number*

Tree te-default-metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description Enter the type context

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* type *identityref*

Tree type

Options

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description Enter the available-bandwidth context

This container defines unidirectional lavailable bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth

Tree available-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The available bandwidth on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, available bandwidth is defined to be residual bandwidth minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

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Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraints

Description Enter the bandwidth-constraints context

This container defines bandwidth-constraints. For DS-TE, the existing Maximum Reservable link bandwidth parameter is retained, but its semantics is generalized and interpreted as the aggregate bandwidth constraint across all Class-Types

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints

Tree bandwidth-constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraint model-id *number*

Description List of the Bandwidth Constraints sub-TLV instances present in the TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Tree bandwidth-constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

model-id *number*

Description Identifier for the Bandwidth Constraints Model currently in use by the LSR initiating the IGP advertisement.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraints

Description Enter the constraints context

Constraints contained within the Bandwidth Constraints sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints

Tree constraints

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint constraint-id *number*

Description List of the constraints within the Bandwidth Constraints sub-TLV. The BC0 level is indicated by the constraint-id leaf being set to 0, with BCN being indicated by constraint-id N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Tree constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint-id *number*

Description Unique reference for the bandwidth constraint level. BC0 is indicated by this leaf being set to zero, with BCN represented by this leaf being set to N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The bandwidth constraint, expressed as a 32-bit IEEE floating point number expressed in bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number* bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group extended-admin-group *number*

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-address

Description Enter the ipv4-interface-address context

This container defines sub-TLV 6.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address

Tree ipv4-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description A 4-octet IPv4 address for the interface described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-neighbor-address

Description Enter the ipv4-neighbor-address context

This container defines sub-TLV 8.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address

Tree ipv4-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description A single IPv4 address for a neighboring router on this link. This sub-TLV can occur multiple times.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-interface-address

Description Enter the ipv6-interface-address context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address

Tree ipv6-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for the interface described by the containing Extended IS Reachability TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*

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instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-neighbor-address

Description Enter the ipv6-neighbor-address context

This container defines sub-TLV 13.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address

Tree ipv6-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for a neighboring router on the link described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address address *string*

Tree address

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sids

Description Enter the lan-adjacency-sids context

This container defines segment routing LAN adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids

Tree lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Tree lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description LAN Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

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Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN- Adj-Segment-ID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* weight *number*

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Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-attributes

Description Enter the link-attributes context

This container defines link-attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes

Tree link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-protection *keyword*

Description Link local-protection attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes local-protection *keyword*

Tree local-protection

Options

- local-protection

  If set, local protection is available for the link.

- link-excluded

  If set, the link is excluded from local protection.

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay

Description Enter the link-delay context

This container defines unidirectional link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay

Tree link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay value (in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay-variation

Description Enter the link-delay-variation context

This container defines unidirectional link delay variation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation

Tree link-delay-variation

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-id

Description Enter the link-id context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id

Tree link-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local *number*

Description The value field of this sub-TLV contains 4 octets of Link Local Identifier followed by 4 octets of Link Remote Identifier.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id local *number*

Tree local

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote *number*

Description If the Link Remote Identifier is unknown, it is set to 0.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id remote *number*

Tree remote

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss

Description Enter the link-loss context

This container defines unidirectional link loss delay.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss *number*

Description Link packet loss as a percentage of the total traffic sent over a configurable interval. The basic unit is 0.000003%, where (2^24 - 2) is 50.331642%. This value s the highest packet-loss percentage that can be expressed (the assumption being that precision is more important on high-speed links than the ability to advertise loss rates greater than this, and that high- peed links with over 50% loss are unusable). Therefore, measured values that are larger than the field maximum SHOULD be encoded as the maximum value.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss link-loss *number*

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-protection-type

Description Enter the link-protection-type context

ISIS LSDB parameters relating to the type of link protection offered.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type

Tree link-protection-type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Link protection capabilities.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type type *keyword*

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Tree type

Options

- extra-traffic

  If set the link has extra traffic protection. If the link is of type Extra Traffic, it means that the link is protecting another link or links. The LSPs on a link of this type will be lost if any of the links it is protecting fail.

- unprotected

  If set, the link is unprotected. If the link is of type Unprotected, it means that there is no other link protecting this link. The LSPs on a link of this type will be lost if the link fails.

- shared

  If set, the link has shared protection. If the link is of type Shared, it means that there are one or more disjoint links of type Extra Traffic that are protecting this link. These Extra Traffic links are shared between one or more links of type Shared.

- one-one

  If set, the link has dedicated 1:1 protection. If the link is of type Dedicated 1:1, it means that there is one dedicated disjoint link of type Extra Traffic that is protecting this link.

- plus-one

  If set, the link has dedicated 1+1 protection. If the link is of type Dedicated 1+1, it means that a dedicated disjoint link is protecting this link. However, the protecting link is not advertised in the link state database and is therefore not available for the routing of LSPs.

- enhanced

  If set the link has enhanced protection. If the link is of type Enhanced, it means that a protection scheme that is more reliable than Dedicated 1+1, e.g., 4 fiber BLSR/MS-SPRING, is being used to protect this link.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-reservable-link-bandwidth

Description Enter the max-reservable-link-bandwidth context

This container defines sub-TLV 10.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string*

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instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth

Tree max-reservable-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum amount of bandwidth that can be reserved in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay

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Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

residual-bandwidth

Description Enter the residual-bandwidth context

This container defines unidirectional residual bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth

Tree residual-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description Residual bandwidth on a link,forwarding adjacency [RFC4206], or bundled link with units of bytes per second. For a link or forwarding adjacency, residual bandwidth is defined to be the Maximum Bandwidth [RFC5305] minus the bandwidth currently allocated to RSVP-TE label switched paths. For a bundled link, residual bandwidth is defined to be the sum of the component link residual bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sids

Description Enter the srv6-adjacency-sids context

This container defines segment routing v6 Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids

Tree srv6-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sid address *string*

Description SRv6 Adjacency SID (END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Tree srv6-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 Adjacency SID (END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect

- end-x-psp

  Endpoint L3 cross-connect with PSP flavor

- end-x-usp

  Endpoint L3 cross-connect with USP flavor

- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors

- end-x-usd

  Endpoint L3 cross-connect with USD flavor

- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors

- end-x-usp-usd

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Endpoint L3 cross-connect with USP and USD flavors

- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors

- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor

- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor

- ua-psp

  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors

- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors

- ua-psp-usp

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* flags *keyword*

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Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Persistent flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 Adj-SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-

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adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the SRv6 Adj-SID for the purpose of load balancing

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sids

Description Enter the srv6-lan-adjacency-sids context

This container defines segment routing v6 LAN Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids

Tree srv6-lan-adjacency-sids

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sid address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP-Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Tree srv6-lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 LAN Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect

- end-x-psp

  Endpoint L3 cross-connect with PSP flavor

- end-x-usp

  Endpoint L3 cross-connect with USP flavor

- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors

- end-x-usd

  Endpoint L3 cross-connect with USD flavor

- end-x-psp-usd

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Endpoint L3 cross-connect with PSP and USD flavors

- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors

- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors

- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor

- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor

- ua-psp

  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors

- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors

- ua-psp-usp

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Set flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN-Adj-Segment-ID value

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 LAN Adjacency SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* weight *number*

Tree weight

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unconstrained-lsp

Description Enter the unconstrained-lsp context

This container defines sub-TLV 23.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp

Tree unconstrained-lsp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Unconstrained TE LSP count(TE Label Switched Paths (LSPs) signalled with zero bandwidth).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp count *number*

Tree count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unreserved-bandwidth

Description Enter the unreserved-bandwidth context

This container defines unreserved-bandwidth. The units are bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth

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Tree unreserved-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority priority *number*

Description Enter the setup-priority list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Tree setup-priority

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Setup priority level of 0 through 7 to be used by Unreserved Bandwidth sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Range 0 to 7

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The amount of bandwidth reservable in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second. The values correspond to the bandwidth that can be reserved with a setup priority of 0 through 7, arranged in increasing order with priority 0 occurring at the start of the sub-TLV, and priority 7 at the end of the sub-TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number* bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

utilized-bandwidth

Description Enter the utilized-bandwidth context

This container defines unidirectional utilized bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth

Tree utilized-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The bandwidth utilization on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, bandwidth utilization represents the actual utilization of the link (i.e., as measured by the advertising node). For a bundled link, bandwidth utilization is defined to be the sum of the component link bandwidth utilizations.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

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Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isis-neighbor-attribute neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-isn

Description Enter the mt-isn context

This container defines list of ISIS multi-topology neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn

Tree mt-isn

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description Enter the neighbors context

MT-IS neigbor attributes.

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors
Tree	neighbors
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor mt-id *number* system-id *string*

Description	This container describes IS neighbors.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string*
Tree	neighbor
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-id *number*

Description	Identifier of a topology being announced.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string*
Range	0 to 4095
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System-id of the IS neighbor.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string*

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instances

Description Enter the instances context

This list contains all instances of an adjacency between the originating and remote IS. Multiple instances are used to indicate where there are arallel adjacencies between systems.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances

Tree instances

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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instance id *number*

Description Instance of TLV-222 between the originating and remote IS.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number*

Tree instance

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Unique identifier for the TLV instance for the neighbor. The ID is not required to be consistent across readvertisements of the LSP.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description ISIS metric value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* metric *number*

Tree metric

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Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes IS Neighbor sub-TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sids

Description Enter the adjacency-sids context

This container defines segment routing adjacency SIDs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids

Tree adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Tree adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags *keyword*

Description Flags associated with Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

  Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance

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id *number* subtlvs subtlv type *identityref* adjacency-sids adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* admin-group admin-group *number*

Tree admin-group

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-specific-link-attributes

Description	Enter the application-specific-link-attributes context This grouping is to display application specific link attributes (sub-TLV 238).
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes
Tree	application-specific-link-attributes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-specific-link-attribute instance *number*

Description	List of Application Specific Link Attributes. Sub-TLV = 16.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*
Tree	application-specific-link-attribute
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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instance *number*

Description Unique instance identifier for the application-specific link attribute entry.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm *boolean*

Description X bit is set in the Standard Application Identifier Bit Mask

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* flexible-algorithm *boolean*

Tree flexible-algorithm

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

legacy *boolean*

Description When the legacy flag is set, all of the applications specified in the bit mask MUST use the legacy advertisements for the corresponding link found in TLVs 22, 23, 25, 141, 222, and 223, in TLV 138, or in TLV 139 as appropriate.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* legacy *boolean*

Tree legacy

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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loop-free-alternate *boolean*

Description	F bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* loop-free-alternate *boolean*
Tree	loop-free-alternate
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te *boolean*

Description	R bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* rsvp-te *boolean*
Tree	rsvp-te
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-policy *boolean*

Description	S bit is set in the Standard Application Identifier Bit Mask
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sr-policy *boolean*
Tree	sr-policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sub-sub-tlvs

Description	Enter the sub-sub-tlvs context
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs
Tree	sub-sub-tlvs
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description	A bit mask representing the administrative groups to which the interface belongs. Sub-Sub-TLV = 3.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs admin-group *number*
Tree	admin-group
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-link-bandwidth *number*

Description	The (LAG aware) bandwidth of the interface to the neighbor. Sub-Sub-TLV = 9.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs maximum-link-bandwidth *number*
Tree	maximum-link-bandwidth
Units	bytes-per-second
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-unidirectional-link-delay

Description Enter the min-max-unidirectional-link-delay context

The minimum and maximum delay between two directly connected IS-IS neighbors.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay

Tree min-max-unidirectional-link-delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anomolous *boolean*

Description If the A bit is cleared, the values represent steady-state link performance.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay anomolous *boolean*

Tree anomolous

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum forward-path delay (from the advertising router to the remote neighbor)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes

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application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum forward-path delay (from the advertising router to the remote neighbor)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs min-max-unidirectional-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of subsubTLV types in the LSDB for the specified TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subsubTLV being described. The type of subsubTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- is-reachability-admin-group

  sub-TLV 3. Administrative group(color).
- is-reachability-link-id

  sub-TLV 4. Link Local/Remote Identifiers.
- is-reachability-ipv4-interface-address

  sub-TLV 6. IPv4 Interface Address.
- is-reachability-ipv4-neighbor-address

  sub-TLV 8. IPv4 Neighbor Address.
- is-reachability-max-link-bandwidth

  sub-TLV 9. Maximum Link Bandwidth.
- is-reachability-max-reservable-bandwidth

  sub-TLV 10. Maximum Reservable Bandwidth.
- is-reachability-unreserved-bandwidth

  sub-TLV 11. Unreserved bandwidth.
- is-reachability-ipv6-interface-address

  sub-TLV 12. IPv6 Interface Address.
- is-reachability-ipv6-neighbor-address

  sub-TLV 13. IPv6 Neighbor Address.
- is-reachability-extended-admin-group

  sub-TLV 14. Extended Administrative Group.
- is-reachability-te-default-metric

  sub-TLV 18. TE Default Metric.
- is-reachability-link-attributes

  sub-TLV 19. Link Attributes.
- is-reachability-link-protection-type

  sub-TLV 20. Link Protection Type.

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- is-reachability-bandwidth-constraints
  sub-TLV 22. Bandwidth Constraints.
- is-reachability-unconstrained-lsp
  sub-TLV 23. Unconstrained LSP.
- is-reachability-adj-sid
  sub-TLV 31. Adjacency Segment Identifier.
- is-reachability-adj-lan-sid
  sub-TLV 32. Adjacency LAN Segment Identifier.
- is-reachability-link-delay
  sub-TLV 33. Unidirectional Link Delay.
- is-reachability-min-max-link-delay
  sub-TLV 34. Min/Max Unidirectional Link Delay.
- is-reachability-link-delay-variation
  sub-TLV 35. Unidirectional Link Delay Variation.
- is-reachability-link-loss
  sub-TLV 36. Unidirectional Link Loss Delay.
- is-reachability-residual-bandwidth
  sub-TLV 37. Unidirectional Residual Bandwidth.
- is-reachability-available-bandwidth
  sub-TLV 38. Unidirectional Available Bandwidth.
- is-reachability-utilized-bandwidth
  sub-TLV 39. Unidirectional Utilized Bandwidth.
- is-reachability-application-specific-link-attributes
  Base identity for an ISIS TLV 16 SUB-TLV type.
- srv6-adj-sid
  sub-TLV 43. SRv6 END.X SID
- srv6-adj-lan-sid
  sub-TLV 44. SRv6 LAN END.X SID

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-group

Description Enter the admin-group context

This container defines sub-TLV 3.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *number*

Description The administrative group sub-TLV contains a 4-octet bit mask assigned by the network administrator

Each set bit corresponds to one administrative group assigned to the interface. By convention, the least significant bit is referred to as group 0, and the most significant bit is referred to as group 31.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* admin-group admin-group *number*

Tree admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* extended-admin-group extended-admin-group *number*

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). It is encoded in 32 bits in IEEE floating point format. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs sub-sub-tlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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te-default-metric *number*

Description An administratively assigned metric used as an alternative to the normal SPF metric based (typically) on link bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* sub-sub-tlvs te-default-metric *number*

Tree te-default-metric

Range 0 to 16777215

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description Enter the type context

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* application-specific-link-attributes application-specific-link-attribute instance *number* type *identityref*

Tree type

Options

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description Enter the available-bandwidth context

This container defines unidirectional lavailable bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth

Tree available-bandwidth

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The available bandwidth on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, available bandwidth is defined to be residual bandwidth minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths minus the measured bandwidth used for the actual forwarding of non-RSVP-TE label switched path packets. For a bundled link, available bandwidth is defined to be the sum of the component link available bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* available-bandwidth type *identityref*

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Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-constraints

Description Enter the bandwidth-constraints context

This container defines bandwidth-constraints. For DS-TE, the existing Maximum Reservable link bandwidth parameter is retained, but its semantics is generalized and interpreted as the aggregate bandwidth constraint across all Class-Types

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints

Tree bandwidth-constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bandwidth-constraint model-id *number*

Description List of the Bandwidth Constraints sub-TLV instances present in the TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Tree bandwidth-constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

model-id *number*

Description Identifier for the Bandwidth Constraints Model currently in use by the LSR initiating the IGP advertisement.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraints

Description Enter the constraints context

Constraints contained within the Bandwidth Constraints sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance

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id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints

Tree constraints

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint constraint-id *number*

Description List of the constraints within the Bandwidth Constraints sub-TLV. The BC0 level is indicated by the constraint-id leaf being set to 0, with BCN being indicated by constraint-id N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Tree constraint

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

constraint-id *number*

Description Unique reference for the bandwidth constraint level. BC0 is indicated by this leaf being set to zero, with BCN represented by this leaf being set to N.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *binary*

Description The bandwidth constraint, expressed as a 32-bit IEEE floating point number expressed in bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* bandwidth-constraints bandwidth-constraint model-id *number* constraints constraint constraint-id *number* bandwidth *binary*

Tree bandwidth

String Length 4

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group

Description Enter the extended-admin-group context

This container defines sub-TLV 14.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-admin-group *number*

Description The extended-admin-group sub-TLV is used in addition to the Administrative Groups when it is desirable to make more than 32 colors available for advertisement in a network.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* extended-admin-group extended-admin-group *number*

Tree extended-admin-group

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-interface-address

Description Enter the ipv4-interface-address context

This container defines sub-TLV 6.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address

Tree ipv4-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description A 4-octet IPv4 address for the interface described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-neighbor-address

Description Enter the ipv4-neighbor-address context

This container defines sub-TLV 8.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address

Tree ipv4-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description A single IPv4 address for a neighboring router on this link. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv4-neighbor-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-interface-address

Description Enter the ipv6-interface-address context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address

Tree ipv6-interface-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for the interface described by the containing Extended IS Reachability TLV. This sub-TLV can occur multiple times.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-interface-address address *string*

Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-neighbor-address

Description Enter the ipv6-neighbor-address context

This container defines sub-TLV 13.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address

Tree ipv6-neighbor-address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Contains a 16-octet IPv6 address for a neighboring router on the link described by the (main) TLV. This sub-TLV can occur multiple times.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* ipv6-neighbor-address address *string*

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Tree address

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sids

Description Enter the lan-adjacency-sids context

This container defines segment routing LAN adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids

Tree lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-adjacency-sid value *number*

Description Adjacency Segment-IDs List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Tree lan-adjacency-sid

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description LAN Adjacency-SID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* flags *keyword*

Tree flags

Options

- address-family

  Address-family flag. When unset, the Adj-SID refers to an adjacency with outgoing IPv4 encapsulation. If set then the Adj-SID refers to an adjacency with outgoing IPv6 encapsulation.

- backup

  Backup flag. When set, the Adj-SID refers to an adjacency being protected (e.g.: using IPFRR or MPLS-FRR).

- value

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Value flag. When set, the SID carries a value (instead of an index). By default the flag is SET.

- local

  Local flag. When set, the value/index carried by the SID has local significance. By default the flag is SET.

- set

  Set flag. When set, the S-Flag indicates that the Adj-SID refers to a set of adjacencies.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN- Adj-Segment-ID value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* lan-adjacency-sids lan-adjacency-sid value *number* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-attributes

Description Enter the link-attributes context

This container defines link-attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes

Tree link-attributes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-protection *keyword*

Description Link local-protection attributes.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-attributes local-protection *keyword*

Tree local-protection

Options

- local-protection

  If set, local protection is available for the link.

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- link-excluded

  If set, the link is excluded from local protection.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay

Description Enter the link-delay context

This container defines unidirectional link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay

Tree link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay value (in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-delay-variation

Description Enter the link-delay-variation context

This container defines unidirectional link delay variation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation

Tree link-delay-variation

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay *number*

Description Average link delay between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-delay-variation delay *number*

Tree delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-id

Description Enter the link-id context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id

Tree link-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local *number*

Description The value field of this sub-TLV contains 4 octets of Link Local Identifier followed by 4 octets of Link Remote Identifier.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id local *number*

Tree local

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote *number*

Description If the Link Remote Identifier is unknown, it is set to 0.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-id remote *number*

Tree remote

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss

Description Enter the link-loss context

This container defines unidirectional link loss delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref*

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mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss

Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-loss *number*

Description Link packet loss as a percentage of the total traffic sent over a configurable interval. The basic unit is 0.000003%, where (2^24 - 2) is 50.331642%. This value s the highest packet-loss percentage that can be expressed (the assumption being that precision is more important on high-speed links than the ability to advertise loss rates greater than this, and that high- peed links with over 50% loss are unusable). Therefore, measured values that are larger than the field maximum SHOULD be encoded as the maximum value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-loss link-loss *number*

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Tree link-loss

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-protection-type

Description Enter the link-protection-type context

ISIS LSDB parameters relating to the type of link protection offered.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type

Tree link-protection-type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Link protection capabilities.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* link-protection-type type *keyword*

Tree type

Options

- extra-traffic

  If set the link has extra traffic protection. If the link is of type Extra Traffic, it means that the link is protecting another link or links. The LSPs on a link of this type will be lost if any of the links it is protecting fail.

- unprotected

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If set, the link is unprotected. If the link is of type Unprotected, it means that there is no other link protecting this link. The LSPs on a link of this type will be lost if the link fails.

- shared

  If set, the link has shared protection. If the link is of type Shared, it means that there are one or more disjoint links of type Extra Traffic that are protecting this link. These Extra Traffic links are shared between one or more links of type Shared.

- one-one

  If set, the link has dedicated 1:1 protection. If the link is of type Dedicated 1:1, it means that there is one dedicated disjoint link of type Extra Traffic that is protecting this link.

- plus-one

  If set, the link has dedicated 1+1 protection. If the link is of type Dedicated 1+1, it means that a dedicated disjoint link is protecting this link. However, the protecting link is not advertised in the link state database and is therefore not available for the routing of LSPs.

- enhanced

  If set the link has enhanced protection. If the link is of type Enhanced, it means that a protection scheme that is more reliable than Dedicated 1+1, e.g., 4 fiber BLSR/MS-SPRING, is being used to protect this link.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-link-bandwidth

Description Enter the max-link-bandwidth context

This container defines sub-TLV 9.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth

Tree max-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum bandwidth that can be used on this link in this direction (from the system originating the LSP to its neighbors). The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-reservable-link-bandwidth

Description Enter the max-reservable-link-bandwidth context

This container defines sub-TLV 10.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth

Tree max-reservable-link-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The maximum amount of bandwidth that can be reserved in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* max-reservable-link-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-max-link-delay

Description Enter the min-max-link-delay context

This container defines min/max link delay.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay

Tree min-max-link-delay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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a-bit *boolean*

Description The A bit is set when the measured value of this parameter exceeds its configured maximum threshold. The A bit is cleared when the measured value falls below its configured reuse threshold.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay a-bit *boolean*

Tree a-bit

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-delay *number*

Description Maximum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay max-delay *number*

Tree max-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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min-delay *number*

Description Minimum measured link delay value(in microseconds) between two directly connected IS-IS neighbors over a configurable interval.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* min-max-link-delay min-delay *number*

Tree min-delay

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

residual-bandwidth

Description Enter the residual-bandwidth context

This container defines unidirectional residual bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth

Tree residual-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description Residual bandwidth on a link,forwarding adjacency [RFC4206], or bundled link with units of bytes per second. For a link or forwarding adjacency,

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residual bandwidth is defined to be the Maximum Bandwidth [RFC5305] minus the bandwidth currently allocated to RSVP-TE label switched paths. For a bundled link, residual bandwidth is defined to be the sum of the component link residual bandwidths.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* residual-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sids

Description Enter the srv6-adjacency-sids context

This container defines segment routing v6 Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids

Tree srv6-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-adjacency-sid address *string*

Description SRv6 Adjacency SID (END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional

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adjacencies. By default, an IGP- Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Tree srv6-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 Adjacency SID (END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* algorithm *number*

Tree algorithm

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect
- end-x-psp

  Endpoint L3 cross-connect with PSP flavor
- end-x-usp

  Endpoint L3 cross-connect with USP flavor
- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd

  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp

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Endpoint L3 cross-connect with NEXT-CSID and PSP flavors

- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors

- ua-psp-usp

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

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Persistent flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 Adj-SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the SRv6 Adj-SID for the purpose of load balancing

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-adjacency-sids srv6-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sids

Description Enter the srv6-lan-adjacency-sids context

This container defines segment routing v6 LAN Adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids

Tree srv6-lan-adjacency-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-lan-adjacency-sid address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) List. An IGP-Adjacency Segment is an IGP segment attached to a unidirectional adjacency or a set of unidirectional adjacencies. By default, an IGP-Adjacency Segment is local to the node which advertises it

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance

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id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Tree srv6-lan-adjacency-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description SRv6 LAN Adjacency SID (LAN END.X) address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the SRv6 Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* algorithm *number*

Tree algorithm

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 LAN Adj-SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* behavior *keyword*

Tree behavior

Options

- end-x

  Endpoint L3 cross-connect
- end-x-psp

  Endpoint L3 cross-connect with PSP flavor
- end-x-usp

  Endpoint L3 cross-connect with USP flavor
- end-x-psp-usp

  Endpoint L3 cross-connect with PSP and USP flavors
- end-x-usd

  Endpoint L3 cross-connect with USD flavor
- end-x-psp-usd

  Endpoint L3 cross-connect with PSP and USD flavors
- end-x-usp-usd

  Endpoint L3 cross-connect with USP and USD flavors
- end-x-psp-usp-usd

  Endpoint L3 cross-connect with PSP, USP and USD flavors
- ua-only

  Endpoint L3 cross-connect with NEXT-ONLY-CSID flavor
- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor
- ua-psp

  Endpoint L3 cross-connect with NEXT-CSID and PSP flavors
- ua-usp

  Endpoint L3 cross-connect with NEXT-CSID and USP flavors
- ua-psp-usp

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Endpoint L3 cross-connect with NEXT-CSID and PSP and USP flavors

- ua-usd

  Endpoint L3 cross-connect with NEXT-CSID and USD flavor

- ua-psp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP and USD flavors

- ua-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and USP and USD flavors

- ua-psp-usp-usd

  Endpoint L3 cross-connect with NEXT-CSID and PSP, USP, and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Flags associated with LAN-Adj-Segment-ID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* flags *keyword*

Tree flags

Options

- backup

  Backup flag. When set, the END.X SID refers to an adjacency being protected (e.g.: using TILFA)

- set

  Set flag. When set, the S-Flag indicates that the END.X SID refers to a set of adjacencies

- persistent

  Set flag. When set, the S-Flag indicates that the END.X SID is persistently allocated, i.e., the SID value remains consistent across router restart and/or interface flap

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-id *string*

Description System ID of the neighbor associated with the LAN-Adj-Segment-ID value

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* neighbor-id *string*

Tree neighbor-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 LAN Adjacency SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-

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adjacency-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Value that represents the weight of the Adj-SID for the purpose of load balancing

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* srv6-lan-adjacency-sids srv6-lan-adjacency-sid address *string* weight *number*

Tree weight

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-default-metric

Description Enter the te-default-metric context

This container defines sub-TLV 18.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric

Tree te-default-metric

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description This metric is administratively assigned and can be used to present a differently weighted topology to traffic engineering SPF calculations. To preclude overflow within a traffic engineering SPF implementation, all metrics greater than or equal to MAX_PATH_METRIC SHALL be considered to have a metric of MAX_PATH_METRIC.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* te-default-metric metric *number*

Tree metric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unconstrained-lsp

Description Enter the unconstrained-lsp context

This container defines sub-TLV 23.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp

Tree unconstrained-lsp

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Unconstrained TE LSP count(TE Label Switched Paths (LSPs) signalled with zero bandwidth).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp count *number*

Tree count

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unconstrained-lsp type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unreserved-bandwidth

Description Enter the unreserved-bandwidth context

This container defines unreserved-bandwidth. The units are bytes per second.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth

Tree unreserved-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority priority *number*

Description Enter the setup-priority list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Tree setup-priority

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Setup priority level of 0 through 7 to be used by Unreserved Bandwidth sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number*

Range 0 to 7

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The amount of bandwidth reservable in this direction on this link. Note that for oversubscription purposes, this can be greater than the bandwidth of the link. The units are bytes (not bits!) per second. The values correspond to the bandwidth that can be reserved with a setup priority of 0 through 7, arranged in increasing order with priority 0 occurring at the start of the sub-TLV, and priority 7 at the end of the sub-TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* unreserved-bandwidth setup-priority priority *number* bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

utilized-bandwidth

Description Enter the utilized-bandwidth context

This container defines unidirectional utilized bandwidth.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth

Tree utilized-bandwidth

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth *number*

Description The bandwidth utilization on a link, forwarding adjacency, or bundled link with units of bytes per second. For a link or forwarding adjacency, bandwidth utilization represents the actual utilization of the link (i.e., as measured by the advertising node). For a bundled link, bandwidth utilization is defined to be the sum of the component link bandwidth utilizations.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth bandwidth *number*

Tree bandwidth

Units bytes per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* subtlvs subtlv type *identityref* utilized-bandwidth type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlvs

Description Enter the undefined-subtlvs context

This container describes undefined ISIS TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs

Tree undefined-subtlvs

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-subtlv type *number*

Description Sub-TLVs that are not defined in the model or not recognised by system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Tree undefined-subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* mt-isn neighbors neighbor mt-id *number* system-id *string* instances instance id *number* undefined-subtlvs undefined-subtlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-topology

Description Enter the multi-topology context

This container defines the topology supported.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* multi-topology

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Tree	multi-topology
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topologies

Description	Enter the topologies context This container describes IS topologies.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* multi-topology topologies
Tree	topologies
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology mt-id *number*

Description	This list describes a topology.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* multi-topology topologies topology mt-id *number*
Tree	topology
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt-id *number*

Description Multi-topology ID.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* multi-topology topologies topology mt-id *number*

Range 0 to 4095

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attributes *keyword*

Description Attributes of the LSP for the associated topology.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* multi-topology topologies topology mt-id *number* attributes *keyword*

Tree attributes

Options

- overload

  When set, node is overloaded, still part of the topology but cannot be used for transit.

- attached

  When set, node is attached to another area using the referred metric and can be used as default gateway.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nlpid

Description Enter the nlpid context

This container defines TLV 129.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* nlpid

Tree nlpid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nlpid *keyword*

Description Protocol supported. IPv4 is defined as (0xcc) and IPv6 -(0x8e)

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* nlpid nlpid *keyword*

Tree nlpid

Options

- ipv4

  IPv4 Address family.

- ipv6

  IPv6 Address family.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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purge-oi

Description Enter the purge-oi context

This container defines ISIS purge TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* purge-oi

Tree purge-oi

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-system-id *string*

Description System ID of the Intermediate System from which the purge was received.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* purge-oi received-system-id *string*

Tree received-system-id

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-system-id *string*

Description System ID of the Intermediate System that inserted this TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* purge-oi source-system-id *string*

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Tree	source-system-id
String Length	14
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id-count *number*

Description	Number of system IDs carried in this TLV.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* purge-oi system-id-count *number*
Tree	system-id-count
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-capabilities

Description	Enter the router-capabilities context This container defines router capabilities.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities
Tree	router-capabilities
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capability instance-number *number*

Description This list describes IS Router capabilities.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number*

Tree capability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-number *number*

Description A unique instance number for the instance of the router capabilities TLV. The instance number should be autogenerated by the producer of the data and may be renumbered if the entire LSP contents are replaced in subsequent advertisements.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flags *keyword*

Description Router capability flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* flags *keyword*

Tree flags

Options

- flood

  When the S bit is set(1), the IS - IS Router CAPABILITY TLV MUST be flooded across the entire routing domain. When the S bit is not set(0), the TLV MUST NOT be leaked between levels . This bit MUST NOT be altered during the TLV leaking.

- down

  When the IS-IS Router CAPABILITY TLV is leaked from level - 2 to level-1, the Down bit MUST be set. Otherwise, this bit MUST be clear. IS - IS Router capability TLVs with the Down bit set MUST NOT be leaked from level - 1 to level-2. This is to prevent TLV looping.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 router-id.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes router capability TLV sub-TLVs

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of subTLV types in the LSDB for the specified TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-definitions

Description Enter the flexible-algorithm-definitions context

This container defines IS-IS Sub-TLVs for the Flexible Algorithm Definition. sub-TLV 26.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions

Tree flexible-algorithm-definitions

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-definition flex-algorithm *number*

Description Enter the flexible-algorithm-definition list instance

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number*

Tree flexible-algorithm-definition

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algorithm *number*

Description Flexible Algorithm number.

Single octet value between 128 and 255 inclusive.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number*

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calculation-type *number*

Description Type of calculation (e.g., SPF).

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* calculation-type *number*

Tree calculation-type

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Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude *number*

Description	Extended Admin Groups Bitmask to exclude during Flex-Algorithm path computation.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* exclude *number*
Tree	exclude
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-srlg *number*

Description	Shared Risk Link Groups to exclude during Flex-Algorithm path computation.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* exclude-srlg *number*
Tree	exclude-srlg
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-flags *keyword*

Description	Flags associated with the FAD.
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type

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identityref flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* fad-flags *keyword*

Tree fad-flags

Options
- M-flag

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description All Extended Admin Groups Bitmask to include during Flex-Algorithm path computation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* include-all *number*

Tree include-all

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description Any Extended Admin Groups Bitmask to include during Flex-Algorithm path computation.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* include-any *number*

Tree include-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Type of metric used by Flexible Algorithms.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* metric-type *keyword*

Tree metric-type

Options
- igp
- delay
- te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Priority of the FAD.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* flexible-algorithm-definitions flexible-algorithm-definition flex-algorithm *number* priority *number*

Tree priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-msds

Description Enter the node-msds context

The Maximum Segment Depth (MSD) values supported by the advertising node. sub-tlv 23.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds

Tree node-msds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bmi-msd *number*

Description Base MPLS Imposition MSD (BMI-MSD) signals the total number of MPLS labels that can be imposed, including all service/transport/special labels. sub-tlv 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds bmi-msd *number*

Tree bmi-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

erld-msd *number*

Description Entropy capable Readable Label Depth MSD (ERLD-MSD), is defined to advertise the ERLD [RFC8662] of a given router. sub-tlv 2.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds erld-msd *number*

Tree erld-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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med-msd *number*

Description Maximum End D (MED) MSD Type, is defined to advertise the maximum number of SIDs present in an SRH when performing decapsulation

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds med-msd *number*

Tree med-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-msd *number*

Description Maximum End Pop (MEP) MSD Type, is defined to advertise the maximum number of SIDs in the SRH to which the router can apply Penultimate Segment Pop (PSP) of the SRH or Ultimate Segment Pop (USP) of the SRH behavior, as defined in Flavors (Section 4.16 of [RFC8986])

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds mep-msd *number*

Tree mep-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mhe-msd *number*

Description Maximum H.Encaps (MHE) MSD Type, is defined to advertise the maximum number of SIDs that can be added to the segment list of an SRH as part of the H.Encaps behavior, as defined in [RFC8986]

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds mhe-msd *number*

Tree mhe-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

msl-msd *number*

Description Maximum Segments Left (MLS) MSD Type, is defined to advertise the maximum value of the Segments Left field [RFC8754] in the SRH of a received packet before applying the Endpoint behavior associated with a SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* node-msds msl-msd *number*

Tree msl-msd

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sbfd-discriminators

Description Enter the sbfd-discriminators context

This container defines sbfd discriminators sub-TLV 20.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* sbfd-discriminators

Tree sbfd-discriminators

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description Advertised Seamless BFD (S-BFD) Discriminator.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* sbfd-discriminators discriminator *number*

Tree discriminator

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-routing-algorithms

Description Enter the segment-routing-algorithms context

This container defines SR algorithm sub-TLV 19.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-algorithms

Tree segment-routing-algorithms

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo *number*

Description User-defined Flex-Algo identifiers. Values must be in the 128–255 range.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-algorithms flex-algo *number*

Tree flex-algo

Range 128 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-algorithm *keyword*

Description The Segment Routing algorithm that is described by the TLV.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-algorithms standard-algorithm *keyword*

Tree standard-algorithm

Options

- spf

  Shortest Path First (SPF) algorithm based on link metric. This is the well-known shortest path algorithm as computed by the IS-IS Decision process. Consistent with the deployed practice for link-state protocols, algorithm 0 permits any node to overwrite the SPF path with a different path based on local policy.

- strict-spf

  Strict Shortest Path First (SPF) algorithm based on link metric. The algorithm is identical to algorithm 0 but algorithm 1 requires that all nodes along the path will honor the SPF routing decision. Local policy MUST NOT alter the forwarding decision computed by algorithm 1 at the node claiming to support algorithm 1.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-routing-capability

Description Enter the segment-routing-capability context

This container defines SR Capability sub-TLV 2.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability

Tree segment-routing-capability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Segment Routing Capability Flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability flags *keyword*

Tree flags

Options

- ipv4-mpls

  When set, the router is capable of processing SR MPLS encapsulated IPv4 packets on all interfaces.

- ipv6-mpls

  When set, the router is capable of processing SR MPLS encapsulated IPv6 packets on all interfaces.

- ipv6-sr

  When set, the router is capable of processing the IPv6 Segment Routing Header on all interfaces.

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srgb-descriptors

Description Enter the srgb-descriptors context

SRGB Descriptors included within the SR capability sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability srgb-descriptors

Tree srgb-descriptors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srgb-descriptor range *number*

Description Descriptor entry within the SR capabilty sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability srgb-descriptors srgb-descriptor range *number*

Tree srgb-descriptor

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range *number*

Description Number of SRGB elements. The range value MUST be greater than 0.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability srgb-descriptors srgb-descriptor range *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *number*

Description The first value of the SRGB when expressed as an MPLS label.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* segment-routing-capability srgb-descriptors srgb-descriptor range *number* label *number*

Tree label

Range 16 to 1048575

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-capabilities

Description Enter the srv6-capabilities context

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This container defines SR Capability sub-TLV 25

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* srv6-capabilities

Tree srv6-capabilities

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Enter the flags context

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* router-capabilities capability instance-number *number* subtlvs subtlv type *identityref* srv6-capabilities flags *keyword*

Tree flags

Options

- oam

  If set, the router supports use of the O-bit in the SRH, as defined in RFC 9259

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-locator

Description Enter the srv6-locator context

This container defines the list of SRv6 Locator TLVs

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator
Tree	srv6-locator
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

locators

Description	Enter the locators context This container describes SRv6 Locators
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators
Tree	locators
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

locator prefix *string* mtid *number*

Description	This list describes SRv6 Locator attributes
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number*
Tree	locator
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description The IPv6 prefix of the locator

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtid *number*

Description The value specifies the multi-topology id number for the locator.

If multi-topology is not supported for the locator then the value should be 0

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the Locator

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* algorithm *number*

Tree algorithm

Range 0 | 128 to 255

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description The flags advertised in the SRv6 Locator TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* flags *keyword*

Tree flags

Options

- down

  The Locator has been leaked from Level-2 to Level-1 (only downwards, not upwards to prevent looping)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description rfc5305

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* metric *number*

Tree metric

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlvs

Description Enter the subtlvs context

This container describes sub-TLVs of the SRv6 Locator TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs

Tree subtlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subtlv type *identityref*

Description List of sub-TLV types in the LSDB for the specified TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref*

Tree subtlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-TLV being described. The type of sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref*

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

This container defines sub-TLV 4.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* flags

Tree flags

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *keyword*

Description Additional prefix reachability flags.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* flags flags *keyword*

Tree flags

Options

- external-flag

  External prefix flag. Set if the prefix has been redistributed from another protocol. This includes the case where multiple virtual routers are supported and the source of the redistributed prefix is another IS-IS instance.

- readvertisement-flag

  Readvertisement flag. Set when the prefix has been leaked from one level to another (upwards or downwards).

- node-flag

  Node flag. Set when the prefix identifies the advertising router, i.e., the prefix is a host prefix advertising a globally reachable address typically associated with a loopback address.

- elc-flag

  Elc flag. Set for local host prefix of the originating node if it supports ELC on all interfaces

- anycast-flag

  Anycast flag. Set if the prefix is anycast

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* flags type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-source-router-id

Description Enter the ipv4-source-router-id context

This container defines sub-TLV 11.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv4-source-router-id

Tree ipv4-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv4 Source router ID address. In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv4-source-router-id router-id *string*

Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv4-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.
- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.
- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.
- application-specific-link-attributes-subtlvs-type

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Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-source-router-id

Description Enter the ipv6-source-router-id context

This container defines sub-TLV 12.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv6-source-router-id

Tree ipv6-source-router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *string*

Description IPv6 Source router ID address.

In cases where the advertisement is an identifier for the advertising router (e.g., with the N-flag set in the Prefix Attribute Flags sub-TLV), it may be useful for other routers to know the source of the advertisement. When reachability advertisement is leaked from one level to another, Router ID advertised is always the Router ID of the IS-IS instance that originated the advertisement. This would be true even if the prefix had been learned from another protocol.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv6-source-router-id router-id *string*

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Tree router-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of subTLV being described. The type of subTLV is expressed as a canonical name.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* ipv6-source-router-id type *identityref*

Tree type

Options

- is-reachability-subtlvs-type

  Base identity for an ISIS TLV 22, 23, 222, 223, 141 SUB-TLV type.

- ip-reachability-subtlvs-type

  Base identity for an ISIS TLV 135, 235, 236, 237 SUB-TLV type.

- router-capability-subtlvs-type

  Base identity for an ISIS TLV 242 SUB-TLV type.

- application-specific-link-attributes-subtlvs-type

  Base identity for an ISIS TLV 16 SUB-TLV type.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-end-sids

Description Enter the srv6-end-sids context

This container defines segment routing v6 extensions for prefixes

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids

Tree srv6-end-sids

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-end-sid address *string*

Description END SID list. IGP-Prefix Segment is an IGP segment attached to an IGP prefix. An IGP-Prefix Segment is global (unless explicitly advertised otherwise) within the SR/IGP domain

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string*

Tree srv6-end-sid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description IGP END SID IPv6 address

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

behavior *keyword*

Description The endpoint behavior of the SRv6 End SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* behavior *keyword*

Tree behavior

Options

- end

  Endpoint
- end-psp

  Endpoint with PSP flavor
- end-usp

  Endpoint with USP flavor
- end-psp-usp

  Endpoint with PSP and USP flavors
- end-usd

  Endpoint with USD flavor
- end-psp-usd

  Endpoint with PSP and USD flavors
- end-usp-usd

  Endpoint with USP and USD flavors
- end-psp-usp-usd

  Endpoint with PSP, USP and USD flavors
- un-only

  Endpoint with NEXT-ONLY-CSID flavor
- un

  Endpoint with NEXT-CSID flavor
- un-psp

  Endpoint with NEXT-CSID and PSP flavors
- un-usp

  Endpoint with NEXT-CSID and USP flavors

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- un-psp-usp

  Endpoint with NEXT-CSID and PSP and USP flavors
- un-usd

  Endpoint with NEXT-CSID and USD flavors
- un-psp-usd

  Endpoint with NEXT-CSID and PSP and USD flavors
- un-usp-usd

  Endpoint with NEXT-CSID and USP and USD flavors
- un-psp-usp-usd

  Endpoint with NEXT-CSID and PSP, USP and USD flavors

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlvs

Description Enter the sub-sub-tlvs context

This container describes sub-sub-TLVs of SRv6 End SID sub-TLV

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs

Tree sub-sub-tlvs

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sub-sub-tlv type *identityref*

Description List of sub-sub-TLVs types in the LSDB for the specified sub-TLV

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Tree sub-sub-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The type of sub-sub-TLV being described. The type of sub-sub-TLV is expressed as a canonical name

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref*

Options

- srv6-sid-structure-isis

  sub-sub-TLV 1 for SRv6 SID sub-TLVs (END, END.X, LAN END.X)

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6-sid-structure

Description Enter the srv6-sid-structure context

This container describes sub-sub-TLV 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type

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identityref srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure

Tree srv6-sid-structure

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

argument-length *number*

Description The length of the argument part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure argument-length *number*

Tree argument-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

block-length *number*

Description The length of the block part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure block-length *number*

Tree block-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function-length *number*

Description The length of the function part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure function-length *number*

Tree function-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-length *number*

Description The length of the node part of the SRv6 SID

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* srv6-end-sids srv6-end-sid address *string* sub-sub-tlvs sub-sub-tlv type *identityref* srv6-sid-structure node-length *number*

Tree node-length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tag

Description Enter the tag context

This container defines sub-TLV 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* tag

Tree tag

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag32 *number*

Description List of 32-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* tag tag32 *number*

Tree tag32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64

Description Enter the tag64 context

This container defines sub-TLV 2.

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Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* tag64

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag64 *number*

Description List of 64-bit tags associated with the prefix. Example uses of these tags include carrying BGP standard (or extended) communities and controlling redistribution between levels and areas, different routing protocols, or multiple instances of IS-IS running on the same router.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* tlvs tlv type *identityref* srv6-locator locators locator prefix *string* mtid *number* subtlvs subtlv type *identityref* tag64 tag64 *number*

Tree tag64

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-tlvs

Description Enter the undefined-tlvs context

Surrounding container for a list of unknown TLVs.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* undefined-tlvs

Tree undefined-tlvs

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undefined-tlv type *number*

Description List of TLVs that are not defined within the model, or are not recognised by the system.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* undefined-tlvs undefined-tlv type *number*

Tree undefined-tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *number*

Description TLV Type.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* undefined-tlvs undefined-tlv type *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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length *number*

Description TLV length.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* undefined-tlvs undefined-tlv type *number* length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *binary*

Description TLV value.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* undefined-tlvs undefined-tlv type *number* value *binary*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description PDU version. This is set to 1.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* version *number*

Tree version

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version2 *number*

Description PDU version2. This is set to 1

Context network-instance name *string* protocols isis instance name *string* level level-number *number* link-state-database lsp lsp-id *string* version2 *number*

Tree version2

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopfree-alternate-exclude *boolean*

Description Enable/disable LFA at ISIS level.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* loopfree-alternate-exclude *boolean*

Tree loopfree-alternate-exclude

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-style *keyword*

Description Specifies the metric style to be wide or narrow for the level

Context network-instance name *string* protocols isis instance name *string* level level-number *number* metric-style *keyword*

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Tree metric-style

Default wide

Options

- narrow

  This enum describes narrow metric style

- wide

  This enum describes wide metric style

Configurable True

Platforms Supported on all platforms

route-preference

Description Enter the route-preference context

Specify the route preference (admin distance) for IP routes asssociated with the level

Context network-instance name *string* protocols isis instance name *string* level level-number *number* route-preference

Tree route-preference

Configurable True

Platforms Supported on all platforms

external *number*

Description Specify the route preference of external routes carried in this level. By default the route preference of external L1 routes is 160. By default the route preference of external L2 routes is 165.

Context network-instance name *string* protocols isis instance name *string* level level-number *number* route-preference external *number*

Tree external

Range 1 to 255

Configurable True

Platforms Supported on all platforms

internal *number*

Description Specify the route preference of internal routes carried in this level. By default the route preference of internal L1 routes is 15. By default the route preference of internal L2 routes is 18.

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* route-preference internal *number*
Tree	internal
Range	1 to 255
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Per level statistics in an ISIS instance
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

authentication-failures *number*

Description	Number of times an IS-IS control PDU associated with this level had the correct auth type but failed to pass authentication validation
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics authentication-failures *number*
Tree	authentication-failures
Default	0
Configurable	False
Platforms	Supported on all platforms

authentication-type-failures *number*

Description	Number of times an IS-IS control PDU associated with this level had an auth type field different from that for this system
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics authentication-type-failures *number*
Tree	authentication-type-failures
Default	0
Configurable	False

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Platforms	Supported on all platforms

corrupted-lsps *number*

Description	Number of corrupted in-memory LSPs detected. LSPs received from the wire with a bad checksum are silently dropped and not counted. LSPs received from the wire with parse errors are counted by lsp-errors
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics corrupted-lsps *number*
Tree	corrupted-lsps
Default	0
Configurable	False
Platforms	Supported on all platforms

database-overloads *number*

Description	Number of times the database has become overloaded
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics database-overloads *number*
Tree	database-overloads
Default	0
Configurable	False
Platforms	Supported on all platforms

exceeded-max-sequence-number *number*

Description	Number of times the system has attempted to exceed the maximum sequence number
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics exceeded-max-sequence-number *number*
Tree	exceeded-max-sequence-number
Default	0
Configurable	False
Platforms	Supported on all platforms

lsp-errors *number*

Description	Number of received LSPs with parse errors

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics lsp-errors *number*
Tree	lsp-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

manual-address-drop-from-area *number*

Description	number of times a manual address has been dropped from area
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics manual-address-drop-from-area *number*
Tree	manual-address-drop-from-area
Default	0
Configurable	False
Platforms	Supported on all platforms

max-area-address-mismatches *number*

Description	Number of times an IS-IS control PDU associated with this level was received with a max area address field different from that for this system
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics max-area-address-mismatches *number*
Tree	max-area-address-mismatches
Default	0
Configurable	False
Platforms	Supported on all platforms

own-lsp-purges *number*

Description	Number of times a zero-aged copy of the system's own LSP is received from some other node
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics own-lsp-purges *number*
Tree	own-lsp-purges
Default	0
Configurable	False

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Platforms	Supported on all platforms

sequence-number-skips *number*

Description	Number of times a sequence number skip has occurred
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics sequence-number-skips *number*
Tree	sequence-number-skips
Default	0
Configurable	False
Platforms	Supported on all platforms

spf-runs *number*

Description	number of times a full SPF run has been performed on the level LSDB since the IS-IS manager restarted
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics spf-runs *number*
Tree	spf-runs
Default	0
Configurable	False
Platforms	Supported on all platforms

system-id-length-mismatches *number*

Description	Number of times an IS-IS control PDU associated with this level was received with a system ID field length different from that for this system
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics system-id-length-mismatches *number*
Tree	system-id-length-mismatches
Default	0
Configurable	False
Platforms	Supported on all platforms

total-lsps *number*

Description	Number of LSPs in the database at the system level

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Context	network-instance name *string* protocols isis instance name *string* level level-number *number* statistics total-lsps *number*
Tree	total-lsps
Default	0
Configurable	False
Platforms	Supported on all platforms

trace-options

Description	Enter the trace-options context Level debug trace options for IS-IS
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* trace-options
Tree	trace-options
Configurable	True
Platforms	Supported on all platforms

trace *keyword*

Description	List of tracing options
Context	network-instance name *string* protocols isis instance name *string* level level-number *number* trace-options trace *keyword*
Tree	trace
Options	• adjacencies • lsdb • routes • spf
Configurable	True
Platforms	Supported on all platforms

level-capability *keyword*

Description	The level-capability of the intermediate system (router)
Context	network-instance name *string* protocols isis instance name *string* level-capability *keyword*
Tree	level-capability

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Default L2

Options
- L1
  This enum describes ISIS level 1
- L2
  This enum describes ISIS level 2
- L1L2
  This enum describes ISIS level 1-2

Configurable True

Platforms Supported on all platforms

link-state-database

Description Enter the link-state-database context

The ISIS link state database

Context network-instance name *string* protocols isis instance name *string* link-state-database

Tree link-state-database

Configurable False

Platforms Supported on all platforms

loopfree-alternate

Description Enter the loopfree-alternate context

Loopfree-alternate related context for the instance.

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate

Tree loopfree-alternate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set, loopfree-alternate protection is enabled for the ISIS instance. Enables ability to seek for LFA, doesn't guarantee LFA protection.

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Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

augment-route-table *boolean*

Description	Extend remote LFA next-hop resolution path entry to RTM such that tunnel can be used in SPF decisions
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate augment-route-table *boolean*
Tree	augment-route-table
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude

Description	Enter the exclude context Set the exclude context for LFA SPF computation
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate exclude
Tree	exclude
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-policy *reference*

Description	Policy to exclude prefixes from LFA SPF calculation
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

multi-homed-prefix

Description	Enter the multi-homed-prefix context Multi-homed-prefix context
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate multi-homed-prefix
Tree	multi-homed-prefix
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set, multi-homed prefix context is enabled for the ISIS instance
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate multi-homed-prefix admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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preference *keyword*

Description Backup preference of a multi-homed prefix

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate multi-homed-prefix preference *keyword*

Tree preference

Default none

Options
- none
- all

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-lfa

Description Enter the remote-lfa context

Remote LFA context

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa

Tree remote-lfa

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set, remote lfa protection is enabled for the ISIS instance. Enables ability to seek for an eligible remote-LFA node (P,Q intersection), doesn't guarantee existance of remote-LFA protection.

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa admin-state *keyword*

Tree admin-state

Default disable

Options
- enable
- disable

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-pq-cost *number*

Description Maximum cost of destination node during reverse SPF calculation

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa max-pq-cost *number*

Tree max-pq-cost

Default 4261412864

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-protect

Description Enter the node-protect context

Node protect context

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa node-protect

Tree node-protect

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set, the IS-IS instance enables node protection using remote lfa. Remote LFA seeks for a viable P,Q intersection that can protect against node failures.

Context network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa node-protect admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-pq-nodes *number*

Description	Maximum number of PQ nodes found in the LFA SPFs. Value 0 disables node protect
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate remote-lfa node-protect max-pq-nodes *number*
Tree	max-pq-nodes
Range	0 to 32
Default	16
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ti-lfa

Description	Enter the ti-lfa context ti-lfa context
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa
Tree	ti-lfa
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set, ti-lfa protection is enabled for the ISIS instance. ti-LFA seeks for a viable P,Q intersection based on constraints including max ti-lfa labels.
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa admin-state *keyword*
Tree	admin-state
Default	disable

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Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-sr-policy-lfa-labels *number*

Description	Maximum number of labels the TI-LFA backup path can use
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa max-sr-policy-lfa-labels *number*
Tree	max-sr-policy-lfa-labels
Range	0 to 3
Default	2
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-srv6-lfa-sids *number*

Description	Maximum number of SIDs the TI-LFA backup path can use
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa max-srv6-lfa-sids *number*
Tree	max-srv6-lfa-sids
Range	0 to 3
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-protect

Description	Enter the node-protect context Node-protect context

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Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa node-protect
Tree	node-protect
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set to enabled, the IS-IS instance enables ti-lfa node protection.
Context	network-instance name *string* protocols isis instance name *string* loopfree-alternate ti-lfa node-protect admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-ecmp-paths *number*

Description	The maximum number of ECMP next-hops to program into the FIB for every IP prefix
Context	network-instance name *string* protocols isis instance name *string* max-ecmp-paths *number*
Tree	max-ecmp-paths
Range	1 to 64
Default	1
Configurable	True
Platforms	Supported on all platforms

multi-part-tlv

Description	Enter the multi-part-tlv context Enable/disable Multi-Part TLV behavior and view stats.

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Context network-instance name *string* protocols isis instance name *string* multi-part-tlv

Tree multi-part-tlv

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *boolean*

Description Enable/disable Multi-Part for Neighbor TLVs (e.g., 22 / 222).

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv neighbor *boolean*

Tree neighbor

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srlg *boolean*

Description Enable/disable Multi-Part for SRLG TLVs (e.g., 138 / 238).

note that ipv6-srlg (e.g. 139) based upon rfc6119 is not allowed to be a multi-part-tlv.

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv srlg *boolean*

Tree srlg

Default true

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Per-level, per-TLV counters for Multi-Part handling.

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tlv tlv-type *number* level-number *number*

Description Statistics keyed by IS-IS level and TLV type.

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics tlv tlv-type *number* level-number *number*

Tree tlv

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tlv-type *number*

Description TLV type (e.g., 22, 222, 138, 238).

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics tlv tlv-type *number* level-number *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level-number *number*

Description IS-IS level for these counters.

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics tlv tlv-type *number* level-number *number*

Range 1 to 2

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mp-tlv-originated *number*

Description Number of Multi-Part TLVs originated.

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics tlv tlv-type *number* level-number *number* mp-tlv-originated *number*

Tree mp-tlv-originated

Default 0

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mp-tlv-truncated *number*

Description	Number of times the TLV payload was truncated.
Context	network-instance name *string* protocols isis instance name *string* multi-part-tlv statistics tlv tlv-type *number* level-number *number* mp-tlv-truncated *number*
Tree	mp-tlv-truncated
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

net *string*

Description	ISIS network entity title (NET)
Context	network-instance name *string* protocols isis instance name *string* net *string*
Tree	net
Configurable	True
Platforms	Supported on all platforms
Max. Elements	5

oper-area-id *string*

Description	The list of area IDs associated with this IS router
Context	network-instance name *string* protocols isis instance name *string* oper-area-id *string*

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Tree	oper-area-id
String Length	2 to 38
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	The value of the this object indicates the operational state of the destination.
Context	network-instance name *string* protocols isis instance name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded Component or process is in a degraded state • warm-reboot Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

oper-system-id *string*

Description The ID for this instance of the Integrated IS-IS protocol.

Context network-instance name *string* protocols isis instance name *string* oper-system-id *string*

Tree oper-system-id

String Length 14

Configurable False

Platforms Supported on all platforms

overload

Description Enter the overload context

Specifies isis routing instance behavior regarding overload

Context network-instance name *string* protocols isis instance name *string* overload

Tree overload

Configurable True

Platforms Supported on all platforms

advertise-external *boolean*

Description When set to true, external (non-ISIS) routes continue to be advertised when the router is in overload.

Context network-instance name *string* protocols isis instance name *string* overload advertise-external *boolean*

Tree advertise-external

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Default	false
Configurable	True
Platforms	Supported on all platforms

advertise-interlevel *boolean*

Description	When set to true, L1->L2 and L2->L1 inter-level routes continue to be advertised when the router is in overload.
Context	network-instance name *string* protocols isis instance name *string* overload advertise-interlevel *boolean*
Tree	advertise-interlevel
Default	false
Configurable	True
Platforms	Supported on all platforms

immediate

Description	Enter the immediate context Options for advertising an overloaded state immediately
Context	network-instance name *string* protocols isis instance name *string* overload immediate
Tree	immediate
Configurable	True
Platforms	Supported on all platforms

max-metric *boolean*

Description	When set to true transit links are advertised with a wide metric of 0xfffffffe and a narrow metric of 0x3f
Context	network-instance name *string* protocols isis instance name *string* overload immediate max-metric *boolean*
Tree	max-metric
Default	false
Configurable	True
Platforms	Supported on all platforms

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set-bit *boolean*

Description When set to true, the Overload bit is set

Context network-instance name *string* protocols isis instance name *string* overload immediate set-bit *boolean*

Tree set-bit

Default false

Configurable True

Platforms Supported on all platforms

instance-is-in-overload *boolean*

Description When set to true the IS-IS instance is currently in overload state.

Context network-instance name *string* protocols isis instance name *string* overload instance-is-in-overload *boolean*

Tree instance-is-in-overload

Configurable False

Platforms Supported on all platforms

last-overload-enter-code *keyword*

Description the value of last-overload-enter-code indicates the condition which caused ISIS to get into overload.

Context network-instance name *string* protocols isis instance name *string* overload last-overload-enter-code *keyword*

Tree last-overload-enter-code

Options

- none
- dynamic
- boot-overload
- manual-overload
- prefix-limit
- fib-add-fail
- rtm-add-fail

Configurable False

Platforms Supported on all platforms

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last-overload-entered-time *string*

Description	the value of last-overload-entrd-time indicates the time at which the system last went into overload state.
Context	network-instance name *string* protocols isis instance name *string* overload last-overload-entered-time *string*
Tree	last-overload-entered-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-overload-exit-code *keyword*

Description	the value of last-overload-exit-code indicates the reason why ISIS came out of overload state the last time, since reset.
Context	network-instance name *string* protocols isis instance name *string* overload last-overload-exit-code *keyword*
Tree	last-overload-exit-code
Options	• none • dynamic • timer-expired • manual-exit
Configurable	False
Platforms	Supported on all platforms

last-overload-exit-time *string*

Description	the value of last-overload-exit-time indicates the time at which the system last came out of overload state.
Context	network-instance name *string* protocols isis instance name *string* overload last-overload-exit-time *string*
Tree	last-overload-exit-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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on-boot

Description	Enter the on-boot context Options for advertising an overloaded state whenever the IS-IS process restarts
Context	network-instance name *string* protocols isis instance name *string* overload on-boot
Tree	on-boot
Configurable	True
Platforms	Supported on all platforms

max-metric *boolean*

Description	When set to true transit links are advertised with a wide metric of 0xffffffe and a narrow metric of 0x3f
Context	network-instance name *string* protocols isis instance name *string* overload on-boot max-metric *boolean*
Tree	max-metric
Configurable	True
Platforms	Supported on all platforms

set-bit *boolean*

Description	When set to true, the Overload bit is set
Context	network-instance name *string* protocols isis instance name *string* overload on-boot set-bit *boolean*
Tree	set-bit
Configurable	True
Platforms	Supported on all platforms

timeout *number*

Description	Specifies the time that the router should remain in overload state after the IS-IS process restarts
Context	network-instance name *string* protocols isis instance name *string* overload on-boot timeout *number*
Tree	timeout
Range	60 to 1800

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Units	seconds
Configurable	True
Platforms	Supported on all platforms

overload-rem-interval *number*

Description	the value of overload-rem-interval indicates the time for which the system will be in overload state if ISIS is in overload state. the value of 0 implies that the system is indefinitely in overload state.
Context	network-instance name *string* protocols isis instance name *string* overload overload-rem-interval *number*
Tree	overload-rem-interval
Range	0 to 65535
Units	seconds
Configurable	False
Platforms	Supported on all platforms

poi-tlv *boolean*

Description	When set to true, a TLV is added to purge to record the system ID of the IS generating the purge.
Context	network-instance name *string* protocols isis instance name *string* poi-tlv *boolean*
Tree	poi-tlv
Default	false
Configurable	True
Platforms	Supported on all platforms

restarting-neighbor-list

Description	Enter the restarting-neighbor-list context The list of neighbors that have restarted recently and that are currently being helped.
Context	network-instance name *string* protocols isis instance name *string* restarting-neighbor-list
Tree	restarting-neighbor-list
Configurable	False
Platforms	Supported on all platforms

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neighbor system-id *string*

Description	The list of neighbors that have restarted recently and that are currently being helped.
Context	network-instance name *string* protocols isis instance name *string* restarting-neighbor-list neighbor system-id *string*
Tree	neighbor
Configurable	False
Platforms	Supported on all platforms

system-id *string*

Description	The neighbor router's system ID.
Context	network-instance name *string* protocols isis instance name *string* restarting-neighbor-list neighbor system-id *string*
String Length	14
Configurable	False
Platforms	Supported on all platforms

hostname *string*

Description	The hostname of the neighbor, as learned by TLV 137.
Context	network-instance name *string* protocols isis instance name *string* restarting-neighbor-list neighbor system-id *string* hostname *string*
Tree	hostname
Configurable	False
Platforms	Supported on all platforms

segment-routing

Description	Enter the segment-routing context Container used to configure segment-routing
Context	network-instance name *string* protocols isis instance name *string* segment-routing
Tree	segment-routing
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo flex-algo-id *number*

Description	Enter the flex-algo list instance
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number*
Tree	flex-algo
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-id *number*

Description	ID of the Flexible Algorithm.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertising-fad *boolean*

Description	Indicates if the local router is advertising the FAD.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* advertising-fad *boolean*
Tree	advertising-fad
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-binding *number*

Description	Binding ID for the Flexible Algorithm.

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Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* flex-algo-binding *number*

Tree flex-algo-binding

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l1-oper-state *keyword*

Description Operational state for IS-IS Level-1.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* l1-oper-state *keyword*

Tree l1-oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

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Component or process is currently warm rebooting

This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l2-oper-state *keyword*

Description Operational state for IS-IS Level-2.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* l2-oper-state *keyword*

Tree l2-oper-state

Options

- up

  Component or process is operational

- down

  Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

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- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level-1

Description Enter the level-1 context

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1

Tree level-1

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-count *number*

Description Number of FADs at this ISIS Level.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 fad-count *number*

Tree fad-count

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-fads fad-owner *string*

Description	Information about other FADs advertised at this ISIS Level.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string*
Tree	other-fads
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-owner *string*

Description	Owner of the Flexible Algorithm Definition.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string*
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calculation-type *number*

Description	Type of calculation (e.g., SPF).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* calculation-type *number*
Tree	calculation-type
Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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exclude *number*

Description Extended Admin Groups Bitmask to display the Exclude fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* exclude *number*

Tree exclude

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-flags *keyword*

Description Flags associated with the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* fad-flags *keyword*

Tree fad-flags

Options

- M-flag

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description Extended Admin Groups Bitmask to display the Include-all fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* include-all *number*

Tree include-all

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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include-any *number*

Description Extended Admin Groups Bitmask to display the Include-any fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* include-any *number*

Tree include-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description IS-IS level (e.g., L1 or L2).

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* level *number*

Tree level

Range 1 to 2

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Type of metric used by Flexible Algorithms.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* metric-type *keyword*

Tree metric-type

Options

- igp
- delay
- te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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priority *number*

Description Priority of the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* priority *number*

Tree priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

supported *boolean*

Description Indicates if this FAD is supported.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 other-fads fad-owner *string* supported *boolean*

Tree supported

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selected-fad

Description Enter the selected-fad context

Information about the selected FAD for this ISIS Level.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad

Tree selected-fad

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calculation-type *number*

Description Type of calculation (e.g., SPF).

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Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad calculation-type *number*
Tree	calculation-type
Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude *number*

Description	Extended Admin Groups Bitmask to display the Exclude fad tlv.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad exclude *number*
Tree	exclude
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-flags *keyword*

Description	Flags associated with the FAD.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad fad-flags *keyword*
Tree	fad-flags
Options	• M-flag
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-owner *string*

Description	Owner of the Flexible Algorithm Definition.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad fad-owner *string*

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Tree	fad-owner
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description	Extended Admin Groups Bitmask to display the Include-all fad tlv.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad include-all *number*
Tree	include-all
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description	Extended Admin Groups Bitmask to display the Include-any fad tlv.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad include-any *number*
Tree	include-any
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description	IS-IS level (e.g., L1 or L2).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad level *number*
Tree	level
Range	1 to 2
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Type of metric used by Flexible Algorithms.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad metric-type *keyword*

Tree metric-type

Options

- igp
- delay
- te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Priority of the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad priority *number*

Tree priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

supported *boolean*

Description Indicates if this FAD is supported.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-1 selected-fad supported *boolean*

Tree supported

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level-2

Description	Enter the level-2 context
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2
Tree	level-2
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-count *number*

Description	Number of FADs at this ISIS Level.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 fad-count *number*
Tree	fad-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-fads fad-owner *string*

Description	Information about other FADs advertised at this ISIS Level.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string*
Tree	other-fads
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fad-owner *string*

Description	Owner of the Flexible Algorithm Definition.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string*
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calculation-type *number*

Description	Type of calculation (e.g., SPF).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* calculation-type *number*
Tree	calculation-type
Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude *number*

Description	Extended Admin Groups Bitmask to display the Exclude fad tlv.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* exclude *number*
Tree	exclude
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fad-flags *keyword*

Description Flags associated with the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* fad-flags *keyword*

Tree fad-flags

Options
- M-flag

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description Extended Admin Groups Bitmask to display the Include-all fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* include-all *number*

Tree include-all

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description Extended Admin Groups Bitmask to display the Include-any fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* include-any *number*

Tree include-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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level *number*

Description IS-IS level (e.g., L1 or L2).

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* level *number*

Tree level

Range 1 to 2

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Type of metric used by Flexible Algorithms.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* metric-type *keyword*

Tree metric-type

Options

- igp
- delay
- te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Priority of the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* priority *number*

Tree priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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supported *boolean*

Description	Indicates if this FAD is supported.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 other-fads fad-owner *string* supported *boolean*
Tree	supported
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selected-fad

Description	Enter the selected-fad context Information about the selected FAD for this ISIS Level.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad
Tree	selected-fad
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

calculation-type *number*

Description	Type of calculation (e.g., SPF).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad calculation-type *number*
Tree	calculation-type
Range	0 to 127
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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exclude *number*

Description Extended Admin Groups Bitmask to display the Exclude fad tlv.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad exclude *number*

Tree exclude

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-flags *keyword*

Description Flags associated with the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad fad-flags *keyword*

Tree fad-flags

Options

- M-flag

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fad-owner *string*

Description Owner of the Flexible Algorithm Definition.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad fad-owner *string*

Tree fad-owner

String Length 14

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description Extended Admin Groups Bitmask to display the Include-all fad tlv.

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Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad include-all *number*
Tree	include-all
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description	Extended Admin Groups Bitmask to display the Include-any fad tlv.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad include-any *number*
Tree	include-any
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description	IS-IS level (e.g., L1 or L2).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad level *number*
Tree	level
Range	1 to 2
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description	Type of metric used by Flexible Algorithms.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad metric-type *keyword*
Tree	metric-type
Options	• igp

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- delay
- te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Priority of the FAD.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad priority *number*

Tree priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

supported *boolean*

Description Indicates if this FAD is supported.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* level-2 selected-fad supported *boolean*

Tree supported

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopfree-alternate *boolean*

Description Status of loopfree alternate.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* loopfree-alternate *boolean*

Tree loopfree-alternate

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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micro-loop-avoidance *boolean*

Description	Indicates if the node activated micro-loop-avoidance in this Flex Algorithm.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* micro-loop-avoidance *boolean*
Tree	micro-loop-avoidance
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

participating *boolean*

Description	Indicates if the router is participating in the algorithm.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* participating *boolean*
Tree	participating
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table

Description	Enter the route-table context
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table
Tree	route-table
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of routes computed using the specified flexible algorithm.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)*

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Tree	ipv4-unicast
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IP prefix associated with the route.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Description	List of nexthop entries.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Tree	backup-nexthop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address | ipv6-address)*

Description	The IP address of the backup-nexthop, which may be either an IPv4 or an IPv6 address.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description The interface used to reach the nexthop. Used when the backup-nexthop references an ambiguous next hop (i.e. unnumbered or link local address)

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hostname *string*

Description hostname of originating system.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* hostname *string*

Tree hostname

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *keyword*

Description ISIS level at which this route was computed.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* level *keyword*

Tree level

Default L1L2

Options

- L1

  This enum describes ISIS level 1

- L2

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This enum describes ISIS level 2

- L1L2

  This enum describes ISIS level 1-2

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description IGP metric for the prefix.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* metric *number*

Tree metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description ISIS route metric type (internal or external).

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* metric-type *keyword*

Tree metric-type

Options

- internal

  This enum describes internal route type

- external

  This enum describes external route type

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Description	List of nexthop entries.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Tree	nexthop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address | ipv6-address)*

Description	The IP address of the nexthop, which may be either an IPv4 or an IPv6 address.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description	The interface used to reach the nexthop. Used when the nexthop references an ambiguous next hop (i.e. unnumbered or link local address)
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-tag *number*

Description Administrative tag associated with the route.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* route-tag *number*

Tree route-tag

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *number*

Description Segment Identifier associated with the route.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* sid *number*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-flags *keyword*

Description Set of Segment Identifier flags associated with the sid.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* sid-flags *keyword*

Tree sid-flags

Options

- R

  Re-advertisement flag: prefix was propagated from another level or protocol.

- N

  Node-SID flag: set when the SID is attached to the router loopback.

- nP

  No-PHP flag: penultimate hop must not pop the SID.

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- E

  Explicit-Null flag: upstream neighbors must use an Explicit-NULL value instead.

- V

  Value flag: indicates that the SID carries a value (not an index).

- L

  Local flag: SID value/index is of local significance only.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System-id of originating system.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* system-id *string*

Tree system-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology-id *keyword*

Description isis routing topology.

native(1) - Indicates standard topology. mt(2) - Indicates multi-topology for IPv4/IPv6 unicast/multicast routing.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* topology-id *keyword*

Tree topology-id

Options

- false
- native
- mt

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description	Version of the route (from SPF calculation).
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv4-unicast prefix *(ipv4-prefix | ipv6-prefix)* version *number*
Tree	version
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast prefix *string*

Description	List of routes computed using the specified flexible algorithm.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string*
Tree	ipv6-unicast
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description	The IPv6 prefix associated with the flexible algorithm route.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Description	List of nexthop entries.

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Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Tree	backup-nexthop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address | ipv6-address)*

Description	The IP address of the backup-nexthop, which may be either an IPv4 or an IPv6 address.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description	The interface used to reach the nexthop. Used when the backup-nexthop references an ambiguous next hop (i.e. unnumbered or link local address)
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* backup-nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hostname *string*

Description	hostname of originating system.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* hostname *string*

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Tree	hostname
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *keyword*

Description	ISIS level at which this route was computed.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* level *keyword*
Tree	level
Default	L1L2
Options	• L1 This enum describes ISIS level 1 • L2 This enum describes ISIS level 2 • L1L2 This enum describes ISIS level 1-2
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	IGP metric for the prefix.
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* metric *number*
Tree	metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric-type *keyword*

Description ISIS route metric type (internal or external).

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* metric-type *keyword*

Tree metric-type

Options

- internal

  This enum describes internal route type

- external

  This enum describes external route type

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Description List of nexthop entries.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Tree nexthop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address | ipv6-address)*

Description The IP address of the nexthop, which may be either an IPv4 or an IPv6 address.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description The interface used to reach the nexthop. Used when the nexthop references an ambiguous next hop (i.e. unnumbered or link local address)

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* nexthop ip-address *(ipv4-address | ipv6-address | ipv6-address)* interface *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-tag *number*

Description Administrative tag associated with the route.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* route-tag *number*

Tree route-tag

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *number*

Description Segment Identifier associated with the route.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* sid *number*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sid-flags *keyword*

Description Set of Segment Identifier flags associated with the sid.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* sid-flags *keyword*

Tree sid-flags

Options

- R

  Re-advertisement flag: prefix was propagated from another level or protocol.

- N

  Node-SID flag: set when the SID is attached to the router loopback.

- nP

  No-PHP flag: penultimate hop must not pop the SID.

- E

  Explicit-Null flag: upstream neighbors must use an Explicit-NULL value instead.

- V

  Value flag: indicates that the SID carries a value (not an index).

- L

  Local flag: SID value/index is of local significance only.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System-id of originating system.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* system-id *string*

Tree system-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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topology-id *keyword*

Description isis routing topology.

native(1) - Indicates standard topology. mt(2) - Indicates multi-topology for IPv4/IPv6 unicast/multicast routing.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* topology-id *keyword*

Tree topology-id

Options

- false
- native
- mt

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description Version of the route (from SPF calculation).

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* route-table ipv6-unicast prefix *string* version *number*

Tree version

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology

Description Enter the topology context

This context enters IS-IS topology state information.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology

Tree topology

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path topology *keyword* isis-level *keyword* system-id *string*

Description IS-IS IP path and optional LFA backup info, per topology.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string*

Tree path

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology *keyword*

Description Multi-Topology Identifier (MT-ID) associated with the path.

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string*

Options

- false
- native
- mt

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

isis-level *keyword*

Description IS-IS Level associated with Flex Algorithm path

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string*

Default L1L2

Options

- L1

  This enum describes ISIS level 1

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- L2

  This enum describes ISIS level 2

- L1L2

  This enum describes ISIS level 1-2

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System ID of the remote IS-IS node

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Outgoing interface to reach the primary nexthop

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* interface *string*

Tree interface

String Length 5 to 27

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-interface *string*

Description LFA backup outgoing interface (if available)

Context network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-interface *string*

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Tree	lfa-interface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-metric *number*

Description	The metric using lfa towards the remote system-id
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-metric *number*
Tree	lfa-metric
Range	0 to 16777215
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-nexthop *(isis-system-id | string)*

Description	LFA backup nexthop system ID (if available)
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-nexthop *(isis-system-id | string)*
Tree	lfa-nexthop
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	The metric towards the remote system-id
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* metric *number*

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Tree	metric
Range	0 to 16777215
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nexthop *(isis-system-id | string)*

Description	Primary nexthop system ID
Context	network-instance name *string* protocols isis instance name *string* segment-routing flex-algo flex-algo-id *number* topology path topology *keyword* isis-level *keyword* system-id *string* nexthop *(isis-system-id | string)*
Tree	nexthop
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flexible-algorithm-binding flex-algo-id *reference*

Description	List of Flexible Algorithm bindings associated with this interface
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference*
Tree	flexible-algorithm-binding
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	7

flex-algo-id *reference*

Description	Flexible Algorithm Identifier used as key
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference*
Reference	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised *boolean*

Description	Indicates if the Flex Algorithm definition is advertised by this node
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference* advertised *boolean*
Tree	advertised
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

isis-level *keyword*

Description	IS-IS Level associated with this Flex Algorithm
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference* isis-level *keyword*
Tree	isis-level
Default	l1l2
Options	• l1l2
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopfree-alternate *boolean*

Description	Enables loopfree-alternate (LFA) protection for the IS-IS flexible algorithm. This setting allows the flex-algo to attempt to compute LFA backup paths. Enabling this does not guarantee LFA will be available. Note: LFA must also be enabled at the top-level IS-IS instance for this to be effective.

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Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference* loopfree-alternate *boolean*
Tree	loopfree-alternate
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

micro-loop-avoidance *boolean*

Description	Indicates if the node activated micro-loop-avoidance in this Flex Algorithm
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference* micro-loop-avoidance *boolean*
Tree	micro-loop-avoidance
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

participate *boolean*

Description	Indicates if the node participates in this Flex Algorithm
Context	network-instance name *string* protocols isis instance name *string* segment-routing flexible-algorithm-binding flex-algo-id *reference* participate *boolean*
Tree	participate
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

micro-loop-avoidance

Description	Enter the micro-loop-avoidance context Enable the micro-loop-avoidance context

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Context	network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance
Tree	micro-loop-avoidance
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set, micro-loop-avoidance is enabled for the ISIS instance.
Context	network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-delay *number*

Description	FIB delay before programming new primary next-hops
Context	network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance fib-delay *number*
Tree	fib-delay
Range	1 to 300
Default	15
Units	deciseconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remaining-fib-delay

Description Enter the remaining-fib-delay context

Remaining FIB delay before programming new primary next-hops. specified per topology (e.g., mt0 and mt2).

Context network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance remaining-fib-delay

Tree remaining-fib-delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt0 *number*

Description Remaining FIB delay for topology mt0.

Context network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance remaining-fib-delay mt0 *number*

Tree mt0

Range 1 to 300

Units deciseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mt2 *number*

Description Remaining FIB delay for topology mt2.

Context network-instance name *string* protocols isis instance name *string* segment-routing micro-loop-avoidance remaining-fib-delay mt2 *number*

Tree mt2

Range 1 to 300

Units deciseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls

Description Context used to configure SR-MPLS options

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency-sid-hold-time *(keyword | number)*

Description Timer to maintain the operational state of the adjacency SID following a failure of the adjacency.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls adjacency-sid-hold-time *(keyword | number)*

Tree adjacency-sid-hold-time

Range 1 to 300

Default 15

Units seconds

Options

- none

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-adjacency-sids

Description Enter the dynamic-adjacency-sids context

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls dynamic-adjacency-sids

Tree dynamic-adjacency-sids

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces *boolean*

Description When true, IS-IS is instructed to assign a dynamic adjacency SID to all IS-IS interfaces in all levels, except for the interfaces configured with an adjacency SID assignment of 'none' or 'static'.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls dynamic-adjacency-sids all-interfaces *boolean*

Tree all-interfaces

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-statistics

Description Enter the egress-statistics context

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls egress-statistics

Tree egress-statistics

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adj-sid *boolean*

Description Enable the allocation of statistics on adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls egress-statistics adj-sid *boolean*

Tree adj-sid

Default false

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Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-sid *boolean*

Description	Enable the allocation of statistics on node SIDs
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls egress-statistics node-sid *boolean*
Tree	node-sid
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-statistics

Description	Enter the ingress-statistics context
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls ingress-statistics
Tree	ingress-statistics
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adj-sid *boolean*

Description	Enable the allocation of statistics on adjacency SIDs
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls ingress-statistics adj-sid *boolean*
Tree	adj-sid
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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node-sid *boolean*

Description Enable the allocation of statistics on node SIDs

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls ingress-statistics node-sid *boolean*

Tree node-sid

Default false

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-sid-depth

Description Enter the maximum-sid-depth context

Container to configure advertise multiple types of Maximum SID Depths (MSDs).

maximum-sid-depth advertisements allow entities (e.g., centralized controllers) to determine whether a particular Segment ID (SID) stack can be supported in a given network

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls maximum-sid-depth

Tree maximum-sid-depth

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

override-bmi *number*

Description Value to override the announced node MSD-BMI value

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls maximum-sid-depth override-bmi *number*

Tree override-bmi

Range 0 to 25

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sid-database

Description	Enter the sid-database context Database of all prefix SIDs associated with the IS-IS instance.
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database
Tree	sid-database
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*

Description	List of prefix SIDs
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*
Tree	prefix-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the SID.
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-label-value *number*

Description	The MPLS label value associated with the SID.

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Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-topology-id *number*

Description	The multi-topology ID that provided the prefix SID
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*
Range	0 to 4095
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description	Contains the identifier of the algorithm the router uses to compute the reachability of the prefix to which the Prefix-SID is associated
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active *boolean*

Description	When false, the prefix SID is inactive. It could be inactive for any of these reasons:
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* active *boolean*

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Tree	active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-conflict *boolean*

Description	Reads true when the prefix SID entry is involved in a prefix conflict within the scope of this IS-IS instance. This occurs when there are multiple entries for the same (prefix, multi-topology-id, algorithm). All the conflicting entries become inactive except for the one with the smallest sid-index.
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* prefix-conflict *boolean*
Tree	prefix-conflict
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-conflict *boolean*

Description	Reads true when the prefix SID entry is involved in a SID conflict within the scope of this IS-IS instance. This occurs when the same SID has been assigned to different prefixes after first eliminating entries that have lost the prefix-conflict comparison. All entries involved in a SID conflict that do not have the absolute lowest 'preference' value become inactive. In the SRL implementation SID entries associated with interfaces of this IS-IS instance are considered to have a lower numerical preference than remote prefix-sid entries. If there are still SID conflicts then all the remaining conflicting entries become inactive except for the one with the smallest sid-index.
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* sid-conflict *boolean*
Tree	sid-conflict
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sid-out-of-range *boolean*

Description	Reads true when a received prefix SID from another router has a SID index or label value that is not within the locally defined SRGB range of the network instance; the prefix SID entry will be inactive.
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* sid-out-of-range *boolean*
Tree	sid-out-of-range
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-router system-id *string* level-number *number*

Description	The ISIS routers that provided the prefix SID. (Multiple in the case of redistribution.)
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number*
Tree	source-router
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description	The system-id of an ISIS router that originated or redistributed the prefix SID
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number*
String Length	14
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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level-number *number*

Description The level of the LSP that advertises the prefix SID

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number*

Range 1 to 2

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags

Description Enter the flags context

Flags that characterize the prefix SID

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags

Tree flags

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-null *boolean*

Description If set any upstream neighbor of the Prefix-SID originator MUST replace the Prefix-SID with a Prefix-SID that has an Explicit NULL value (0 for IPv4 and 2 for IPv6) before forwarding the packet

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags explicit-null *boolean*

Tree explicit-null

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local *boolean*

Description If set, then the value/index carried by the Prefix-SID has local significance.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags local *boolean*

Tree local

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-sid *boolean*

Description If set the prefix SID refers to the router identified by the prefix.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags node-sid *boolean*

Tree node-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

penultimate-hop-popping *boolean*

Description If set the penultimate hop MUST NOT pop the Prefix-SID before delivering the packet to the node that advertised the Prefix-SID.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags penultimate-hop-popping *boolean*

Tree penultimate-hop-popping

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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re-advertised *boolean*

Description If set the prefix to which this Prefix-SID is attached was propagated from another level or from another protocol.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* flags re-advertised *boolean*

Tree re-advertised

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-system *boolean*

Description True when the system ID belongs to the local system.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* multi-topology-id *number* algorithm *number* source-router system-id *string* level-number *number* local-system *boolean*

Tree local-system

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-statistics

Description Enter the sid-statistics context

SID statistics

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics

Tree sid-statistics

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label label *number*

Description Enter the sid-statistics list instance

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number*

Tree label

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *number*

Description The value specifies the SID label

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number*

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the prefix SID.

The value can indicate a defined IGP Algorithm (value 0 is SPF)

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* egress

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Tree	egress
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description	The number of octets
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* egress octets *number*
Tree	octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The statistics operational state of this SID for this direction
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* egress oper-state *keyword*
Tree	oper-state
Options	• enabled • disabled
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of packets
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* egress packets *number*
Tree	packets
Default	0

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Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description Indication whether resource allocation succeeded or failed for the set of counters

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* egress resource-allocation *keyword*

Tree resource-allocation

Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* ingress

Tree ingress

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description The number of octets

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* ingress octets *number*

Tree octets

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The statistics operational state of this SID for this direction
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* ingress oper-state *keyword*
Tree	oper-state
Options	• enabled • disabled
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of packets
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* ingress packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description	Indication whether resource allocation succeeded or failed for the set of counters
Context	network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* ingress resource-allocation *keyword*
Tree	resource-allocation

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Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Ougoing subinterface

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* interface *string*

Tree interface

String Length 5 to 27

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description The IP address type

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* prefix *string*

Tree prefix

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of SID for which statistics are collected

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls sid-statistics label label *number* type *keyword*

Tree type

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Options
- node
- adjacency

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block *reference*

Description Reference to a static label block to use an SRLB.

Configuration of this label block is mandatory in order to assign static adjacency SID labels.

This label block is advertised as an SRLB in the router capabilities TLV.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls static-label-block *reference*

Tree static-label-block

Reference system mpls label-ranges static name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block-status *keyword*

Description Status of the label block.

The label block may show as unavailable if there is pending cleanup.

Context network-instance name *string* protocols isis instance name *string* segment-routing mpls static-label-block-status *keyword*

Tree static-label-block-status

Options
- available
- unavailable

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6

Description Enter the srv6 context

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6

Tree srv6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adj-sid-hold *(keyword | number)*

Description Adjacency SID hold time that is applicable to dynamically allocated adjacency SIDs

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6 adj-sid-hold *(keyword | number)*

Tree adj-sid-hold

Range 1 to 300

Default 15

Units seconds

Options

- none

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of Segment Routing with IPv6

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6 admin-state *keyword*

Tree admin-state

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Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

locator locator-name *reference*

Description	Enter the locator list instance
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference*
Tree	locator
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

locator-name *reference*

Description	Locator name
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference*
Reference	srl_nokia-system system srv6 locator locator-name
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level level-number *number*

Description	Enter the level list instance
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* level level-number *number*
Tree	level
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

level-number *number*

Description	ISIS protocol level number
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* level level-number *number*
Range	1 to 2
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	IS-IS metric to advertise in the locator level list
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* level level-number *number* metric *number*
Tree	metric
Range	0 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level-capability *keyword*

Description	IS-IS routing level capability
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* level-capability *keyword*
Tree	level-capability
Default	L1L2
Options	• L1 This enum describes ISIS level 1 • L2

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This enum describes ISIS level 2

- L1L2

  This enum describes ISIS level 1-2

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-topology

Description Enter the multi-topology context

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* multi-topology

Tree multi-topology

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-topology-0 *boolean*

Description Support standard topology (MT0)

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* multi-topology multi-topology-0 *boolean*

Tree multi-topology-0

Default true

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-topology-2 *boolean*

Description Support IPv6 routing topology (MT2)

Context network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* multi-topology multi-topology-2 *boolean*

Tree multi-topology-2

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Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag *number*

Description	Route tag to advertise in the locator
Context	network-instance name *string* protocols isis instance name *string* segment-routing srv6 locator locator-name *reference* tag *number*
Tree	tag
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Instance level statistics
Context	network-instance name *string* protocols isis instance name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

last-partial-spf *string*

Description	The elapsed time since the last time a partial SPF run was run on either the L1 or L2 LSDB
Context	network-instance name *string* protocols isis instance name *string* statistics last-partial-spf *string*
Tree	last-partial-spf
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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last-spf *string*

Description	The elapsed time since the last time a full SPF run was run on either the L1 or L2 LSDB
Context	network-instance name *string* protocols isis instance name *string* statistics last-spf *string*
Tree	last-spf
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

partial-spf-runs *number*

Description	The number of times a partial SPF run has been performed on either the L1 or L2 LSDB since the IS-IS manager restarted
Context	network-instance name *string* protocols isis instance name *string* statistics partial-spf-runs *number*
Tree	partial-spf-runs
Default	0
Configurable	False
Platforms	Supported on all platforms

pdu pdu-name *keyword*

Description	List of PDUs processed by the IS-IS instance since the IS-IS manager restarted
Context	network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword*
Tree	pdu
Configurable	False
Platforms	Supported on all platforms

pdu-name *keyword*

Description	The PDU type that was processed
Context	network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword*
Options	• LSP

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Link State PDU

- IIH

  IS-to-IS Hello PDU
- CSNP

  Complete Sequence Number PDU
- PSNP

  Partial Sequence Number PDU
- Unknown

  Unknown PDU type

Configurable False

Platforms Supported on all platforms

dropped *number*

Description The number of PDUs that were received and dropped

Context network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword* dropped *number*

Tree dropped

Default 0

Configurable False

Platforms Supported on all platforms

processed *number*

Description The number of PDUs that were received and processed

Context network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword* processed *number*

Tree processed

Default 0

Configurable False

Platforms Supported on all platforms

received *number*

Description The number of PDUs that were received

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Context	network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword* received *number*
Tree	received
Default	0
Configurable	False
Platforms	Supported on all platforms

sent *number*

Description	The number of PDUs that were transmitted
Context	network-instance name *string* protocols isis instance name *string* statistics pdu pdu-name *keyword* sent *number*
Tree	sent
Default	0
Configurable	False
Platforms	Supported on all platforms

spf-runs *number*

Description	The number of times a full SPF run has been performed on either the L1 or L2 LSDB since the IS-IS manager restarted
Context	network-instance name *string* protocols isis instance name *string* statistics spf-runs *number*
Tree	spf-runs
Default	0
Configurable	False
Platforms	Supported on all platforms

te-database-install

Description	When present, topology and TE information related to this protocol instance is installed into the TE database
Context	network-instance name *string* protocols isis instance name *string* te-database-install
Tree	te-database-install
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-ls

Description	When present, topology and TE information related to this protocol instance is installed into the TE database in a format that supports export as BGP-LS routes
Context	network-instance name *string* protocols isis instance name *string* te-database-install bgp-ls
Tree	bgp-ls
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igp-identifier *number*

Description	Unique identifier of the IGP instance that is sent in the BGP-LS NLRI
Context	network-instance name *string* protocols isis instance name *string* te-database-install bgp-ls igp-identifier *number*
Tree	igp-identifier
Range	0 to 18446744073709551615
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timers

Description	Enter the timers context Container for IS-IS timers applicable at the instance level
Context	network-instance name *string* protocols isis instance name *string* timers
Tree	timers
Configurable	True
Platforms	Supported on all platforms

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lsp-generation

Description Enter the lsp-generation context

Container with options for specifying LSP generation timer values

Context network-instance name *string* protocols isis instance name *string* timers lsp-generation

Tree lsp-generation

Configurable True

Platforms Supported on all platforms

initial-wait *number*

Description Time interval between the detection of topology change and when the new LSP is generated.

The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms

Context network-instance name *string* protocols isis instance name *string* timers lsp-generation initial-wait *number*

Tree initial-wait

Range 10 to 100000

Default 10

Units milliseconds

Configurable True

Platforms Supported on all platforms

max-wait *number*

Description Specifies the maximum interval between two consecutive generations of an LSP.

The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms

Context network-instance name *string* protocols isis instance name *string* timers lsp-generation max-wait *number*

Tree max-wait

Range 10 to 120000

Default 5000

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Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

second-wait *number*

Description	Time interval between the the first and second LSP generation. The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms
Context	network-instance name *string* protocols isis instance name *string* timers lsp-generation second-wait *number*
Tree	second-wait
Range	10 to 100000
Default	1000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

lsp-lifetime *number*

Description	Time interval in seconds that the LSPs originated by this IS (router) remain valid in the LSDB before they must be refreshed or else they are purged.
Context	network-instance name *string* protocols isis instance name *string* timers lsp-lifetime *number*
Tree	lsp-lifetime
Range	350 to 65535
Default	1200
Units	seconds
Configurable	True
Platforms	Supported on all platforms

lsp-refresh

Description	Enter the lsp-refresh context Configure LSP refresh timers.

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Context	network-instance name *string* protocols isis instance name *string* timers lsp-refresh
Tree	lsp-refresh
Configurable	True
Platforms	Supported on all platforms

half-lifetime *boolean*

Description	When set to true, the LSP refresh interval is half the lsp-lifetime
Context	network-instance name *string* protocols isis instance name *string* timers lsp-refresh half-lifetime *boolean*
Tree	half-lifetime
Default	true
Configurable	True
Platforms	Supported on all platforms

interval *number*

Description	Time interval in seconds since the last advertisement of its LSP when the router attempts to refresh the LSP. Must not exceed 90% of the lsp-lifetime. This value is ignored when half-lifetime is set to true.
Context	network-instance name *string* protocols isis instance name *string* timers lsp-refresh interval *number*
Tree	interval
Range	150 to 65535
Default	600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

spf

Description	Enter the spf context Container with options for specifying SPF timer values
Context	network-instance name *string* protocols isis instance name *string* timers spf
Tree	spf
Configurable	True

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Platforms	Supported on all platforms

initial-wait *number*

Description	Time interval between the detection of topology change and when the SPF algorithm runs. The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms
Context	network-instance name *string* protocols isis instance name *string* timers spf initial-wait *number*
Tree	initial-wait
Range	10 to 100000
Default	1000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

max-wait *number*

Description	Specifies the maximum interval between two consecutive SPF calculations in milliseconds. The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms
Context	network-instance name *string* protocols isis instance name *string* timers spf max-wait *number*
Tree	max-wait
Range	10 to 120000
Default	10000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

second-wait *number*

Description	Time interval between the the first and second SPF run.

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The timer granularity is 100 ms. Timer values are rounded down to the nearest granularity, for example a configured value of 550 ms is internally rounded down to 500 ms

Context network-instance name *string* protocols isis instance name *string* timers spf second-wait *number*

Tree second-wait

Range 10 to 100000

Default 1000

Units milliseconds

Configurable True

Platforms Supported on all platforms

topology

Description Enter the topology context

This context enters IS-IS topology state information.

Context network-instance name *string* protocols isis instance name *string* topology

Tree topology

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path topology *keyword* isis-level *keyword* system-id *string*

Description IS-IS IP path and optional LFA backup info, per topology.

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string*

Tree path

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

topology *keyword*

Description Multi-Topology Identifier (MT-ID) associated with the path.

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string*

Options

- false
- native
- mt

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

isis-level *keyword*

Description Specifies the IS-IS protocol level to which this path attributes are applied.

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string*

Default L1L2

Options

- L1

  This enum describes ISIS level 1
- L2

  This enum describes ISIS level 2
- L1L2

  This enum describes ISIS level 1-2

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description System ID of the IS-IS node

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Outgoing interface to reach the primary nexthop

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* interface *string*

Tree interface

String Length 5 to 27

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-interface *string*

Description LFA backup outgoing interface (if available)

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-interface *string*

Tree lfa-interface

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String Length	5 to 27
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-metric *number*

Description	The metric using lfa towards the remote system-id
Context	network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-metric *number*
Tree	lfa-metric
Range	0 to 16777215
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lfa-nexthop *(isis-system-id | string)*

Description	LFA backup nexthop system ID (if available)
Context	network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* lfa-nexthop *(isis-system-id | string)*
Tree	lfa-nexthop
String Length	14
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description The metric towards the remote system-id

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* metric *number*

Tree metric

Range 0 to 16777215

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nexthop *(isis-system-id | string)*

Description Primary nexthop system ID

Context network-instance name *string* protocols isis instance name *string* topology path topology *keyword* isis-level *keyword* system-id *string* nexthop *(isis-system-id | string)*

Tree nexthop

String Length 14

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

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Instance level debug trace options for IS-IS

Context network-instance name *string* protocols isis instance name *string* trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

trace *keyword*

Description List of tracing options

Context network-instance name *string* protocols isis instance name *string* trace-options trace *keyword*

Tree trace

Options

- adjacencies
- graceful-restart
- interfaces
- packets-all
- packets-p2p-hello
- packets-l1-hello
- packets-l2-hello
- packets-l1-psnp
- packets-l2-psnp
- packets-l1-csnp
- packets-l2-csnp
- packets-l1-lsp
- packets-l2-lsp
- routes
- summary-addresses

Configurable True

Platforms Supported on all platforms

traffic-engineering

Description Enter the traffic-engineering context

container for traffic engineering information

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Context	network-instance name *string* protocols isis instance name *string* traffic-engineering
Tree	traffic-engineering
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertisement *boolean*

Description	A setting of false means that no TE-related TLVs and subTLVs should be added to LSAs or LSPs originated by this IGP instance. A setting of true means that TE-related TLVs and subTLVs should be added to LSAs or LSPs originated by this IGP instance.
Context	network-instance name *string* protocols isis instance name *string* traffic-engineering advertisement *boolean*
Tree	advertisement
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-te-router-id *string*

Description	A routable IPv4 address to identify the router uniquely in a TE domain. TLV = 134. The ipv4-te-router-id contains the 4-octet router ID of the router originating the LSP. The ipv4-te-router-id guarantees a single stable address that can always be referenced in a path that will be reachable from multiple hops away, regardless of the state of the node's interfaces. The configured ipv4-te-router-id address must be active and reachable within the routing instance and must be associated to either a system or loopback interface. The state value represents the operational advertised of ipv4-te-router-id
Context	network-instance name *string* protocols isis instance name *string* traffic-engineering ipv4-te-router-id *string*
Tree	ipv4-te-router-id
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-te-router-id *string*

Description A routable IPv6 address to identify the router uniquely in a TE domain. TLV = 140.

The ipv6-te-router-id contains the 4-octet router ID of the router originating the LSP. The ipv6-te-router-id guarantees a single stable address that can always be referenced in a path that will be reachable from multiple hops away, regardless of the state of the node's interfaces.

The configured ipv6-te-router-id address must be active and reachable within the routing instance and must be associated to either a system or loopback interface. The state value represents the operational advertised of ipv6-te-router-id

Context network-instance name *string* protocols isis instance name *string* traffic-engineering ipv6-te-router-id *string*

Tree ipv6-te-router-id

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

legacy-link-attribute-advertisement *boolean*

Description The advertisement mode for TE link attributes.

A setting of true means that TE properties should be advertised in legacy mode as defined in RFC 8919 and RFC 8920.

Context network-instance name *string* protocols isis instance name *string* traffic-engineering legacy-link-attribute-advertisement *boolean*

Tree legacy-link-attribute-advertisement

Default true

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport

Description Enter the transport context

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This container defines ISIS transport.

Context network-instance name *string* protocols isis instance name *string* transport

Tree transport

Configurable True

Platforms Supported on all platforms

lsp-mtu-size *number*

Description Sets the maximum size of LSPs generated by this router

Context network-instance name *string* protocols isis instance name *string* transport lsp-mtu-size *number*

Tree lsp-mtu-size

Range 490 to 9490

Default 1492

Units bytes

Configurable True

Platforms Supported on all platforms

weighted-ecmp

Description Enter the weighted-ecmp context

Context network-instance name *string* protocols isis instance name *string* weighted-ecmp

Tree weighted-ecmp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Setting enable triggers weighted ECMP programming for all eligible multipath IS-IS routes associated with the instance

An IS-IS route is eligible for weighted ECMP if all the next-hop interfaces in the multipath set have a load-balancing-weight other than 'none'.

When weighted ECMP is disabled in an IS-IS instance all IS-IS multipath routes are programmed as normal ECMP, even if some or all of the next-hop

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interfaces in any particular multipath set have a load-balancing-weight other than 'none'.

Context network-instance name *string* protocols isis instance name *string* weighted-ecmp admin-state *keyword*

Tree admin-state

Default disable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-ecmp-hash-buckets-per-next-hop-group *number*

Description Specifies the maximum number of ECMP hash buckets per next-hop-group.

Weighted ECMP weights are normalized based on this number of hash buckets.

Context network-instance name *string* protocols isis instance name *string* weighted-ecmp max-ecmp-hash-buckets-per-next-hop-group *number*

Tree max-ecmp-hash-buckets-per-next-hop-group

Range 1 to 256

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-stop-forwarding

Description Enter the non-stop-forwarding context

Container to configure non-stop-forwarding

Context network-instance name *string* protocols isis non-stop-forwarding

Tree non-stop-forwarding

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Used to administratively enable or disable the IS-IS non-stop forwarding functionality.

Context network-instance name *string* protocols isis non-stop-forwarding admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

layer-3-evpn-neighbor-synchronization

Description Enable the layer-3-evpn-neighbor-synchronization context

Context network-instance name *string* protocols layer-3-evpn-neighbor-synchronization

Tree layer-3-evpn-neighbor-synchronization

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enables the EVPN neighbor synchronization on the non-IRB subinterfaces of the network-instance

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Context network-instance name *string* protocols layer-3-evpn-neighbor-synchronization admin-state *keyword*

Tree admin-state

Default disable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi-route-target *(string | string | string | string | string | string | string | string | string | string | string)*

Description EVPN evi-route-target to use for the EVPN neighbor synchronization

It is mandatory to configure an evi-target for layer-3 EVPN neighbor synchronization. The evi-target is used to identify the layer-3 EVPN neighbor synchronization routes in the network-instance. This value must be unique across all the network-instances.

Context network-instance name *string* protocols layer-3-evpn-neighbor-synchronization evi-route-target *(string | string | string | string | string | string | string | string | string | string | string)*

Tree evi-route-target

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context network-instance name *string* protocols layer-3-evpn-neighbor-synchronization internal-tags

Tree internal-tags

Configurable True

Platforms Supported on all platforms

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set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	network-instance name *string* protocols layer-3-evpn-neighbor-synchronization internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

retention-timer *number*

Description	Retention Timer that determines how long an EVPN ARP/ND entry is retained
Context	network-instance name *string* protocols layer-3-evpn-neighbor-synchronization retention-timer *number*
Tree	retention-timer
Range	0 to 65535
Default	0
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	Route Distinguisher (RD) used for layer-3 EVPN neighbor synchronization in the network-instance It is mandatory to configure an RD for the layer-3 EVPN neighbor synchronization. The RD is used to distinguish the layer-3 EVPN neighbor synchronization routes.
Context	network-instance name *string* protocols layer-3-evpn-neighbor-synchronization route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*
Tree	route-distinguisher

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp

Description	Container for LDP configuration and state
Context	network-instance name *string* protocols ldp
Tree	ldp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable LDP
Context	network-instance name *string* protocols ldp admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discovery

Description	Enter the discovery context Neighbor discovery configuration and operational state
Context	network-instance name *string* protocols ldp discovery
Tree	discovery
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interfaces

Description	Enter the interfaces context The complete set of interfaces used for LDP Basic Discovery
Context	network-instance name *string* protocols ldp discovery interfaces
Tree	interfaces
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime *number*

Description	The time interval for which a LDP Hello adjacency is maintained in the absence of Hello messages from the LDP neighbor
Context	network-instance name *string* protocols ldp discovery interfaces hello-holdtime *number*
Tree	hello-holdtime
Range	15 to 3600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description	The interval between consecutive LDP Hello messages used in LDP discovery
Context	network-instance name *string* protocols ldp discovery interfaces hello-interval *number*
Tree	hello-interval
Range	5 to 1200
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface name *string*

Description	List of LDP interfaces used for LDP Basic Discovery
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string*
Tree	interface
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Reference to a specific subinterface that is bound to the network instance
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string*
String Length	5 to 27
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime *number*

Description	The time interval for which a LDP Hello adjacency is maintained in the absence of Hello messages from the LDP neighbor
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* hello-holdtime *number*
Tree	hello-holdtime
Range	15 to 3600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hello-interval *number*

Description	The interval between consecutive LDP Hello messages used in LDP discovery
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* hello-interval *number*
Tree	hello-interval
Range	5 to 1200
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Enter the ipv4 context
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4
Tree	ipv4
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable LDP discovery for IPv4 on a particular interface
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd *boolean*

Description	Enable BFD
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 enable-bfd *boolean*
Tree	enable-bfd
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-adjacencies

Description	Enter the hello-adjacencies context Container with a list of hello adjacencies
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies
Tree	hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency lsr-id *reference* label-space-id *reference*

Description	List of hello adjacencies
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Tree	adjacency
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lsr-id *reference*

Description The LSR ID of the peer, as a portion of the peer LDP ID

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*

Reference network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description The Label Space ID of the peer, as a portion of the peer LDP ID

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*

Reference network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime

Description Enter the hello-holdtime context

Container for hello holdtime state information

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime

Tree hello-holdtime

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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negotiated *number*

Description	The holdtime negotiated between this LSR and the adjacent LSR
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime negotiated *number*
Tree	negotiated
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-proposed *number*

Description	The holdtime value learned from the adjacent LSR
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime neighbor-proposed *number*
Tree	neighbor-proposed
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining *number*

Description	The time remaining until the holdtime timer expires
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime remaining *number*
Tree	remaining
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hello-received *number*

Description	The number of Hello messages received
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-received *number*
Tree	hello-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-sent *number*

Description	The number of Hello messages sent
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-sent *number*
Tree	hello-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* local-address *string*
Tree	local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-address *string*

Description	Remote address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* remote-address *string*
Tree	remote-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

intf-oper-down-reason *keyword*

Description	Reason for the LDP interface being down
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 intf-oper-down-reason *keyword*
Tree	intf-oper-down-reason
Options	• ldp-interface-admin-down • ldp-instance-oper-down • network-instance-subinterface-down • out-of-resources • unknown
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	The last time when the IPv4 oper-state changed
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of IPv4 on the LDP interface

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 oper-state *keyword*

Tree oper-state

Options

- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

override-lsr-id

Description Enter the override-lsr-id context

Options to override the LSR ID

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 override-lsr-id

Tree override-lsr-id

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-subinterface *keyword*

Description Use local subinterface IP address as LSR ID for interface LDP session

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 override-lsr-id local-subinterface *keyword*

Tree local-subinterface

Options

- ipv4

  Use the IPv4 address of the subinterface as the LSR ID

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics objects
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-message-errors

Description	Enter the hello-message-errors context Counters for received Hello message errors
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-message-errors
Tree	hello-message-errors
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-message-length *number*

Description	The number of Hello messages received with a bad message length
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-message-errors bad-message-length *number*
Tree	bad-message-length
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-pdu-length *number*

Description	The number of Hello messages received with a bad PDU length
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-message-errors bad-pdu-length *number*
Tree	bad-pdu-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-protocol-version *number*

Description	The number of Hello messages received with a bad protocol version
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-message-errors bad-protocol-version *number*
Tree	bad-protocol-version
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-tlv-value *number*

Description	The number of Hello messages received with a malformed TLV value
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-message-errors malformed-tlv-value *number*
Tree	malformed-tlv-value
Default	0
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-received *number*

Description The number of Hello messages received

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-received *number*

Tree hello-received

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-sent *number*

Description The number of Hello messages sent

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics hello-sent *number*

Tree hello-sent

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Configure event/packet tracing for one specific LDP interface

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 trace-options

Tree trace-options

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace *keyword*

Description Specifies the trace information to be captured

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 trace-options trace *keyword*

Tree trace

Options

- all

  Trace all events and packets
- events-discovery

  Trace session related events
- messages-hello

  Trace Hello packets
- messages-hello-detail

  Trace LDP Hello packets with detailed output

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6

Tree ipv6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable LDP discovery for IPv6 on a particular interface

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 admin-state *keyword*

Tree admin-state

Default disable

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Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd *boolean*

Description	Enable BFD
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 enable-bfd *boolean*
Tree	enable-bfd
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-adjacencies

Description	Enter the hello-adjacencies context Container with a list of hello adjacencies
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies
Tree	hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency lsr-id *reference* label-space-id *reference*

Description	List of hello adjacencies
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Tree	adjacency

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime

Description	Enter the hello-holdtime context Container for hello holdtime state information
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime
Tree	hello-holdtime
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

negotiated *number*

Description	The holdtime negotiated between this LSR and the adjacent LSR
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime negotiated *number*
Tree	negotiated
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-proposed *number*

Description	The holdtime value learned from the adjacent LSR
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime neighbor-proposed *number*
Tree	neighbor-proposed
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining *number*

Description	The time remaining until the holdtime timer expires
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime remaining *number*
Tree	remaining
Units	seconds
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-received *number*

Description	The number of Hello messages received
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-received *number*
Tree	hello-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-sent *number*

Description	The number of Hello messages sent
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-sent *number*
Tree	hello-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* local-address *string*
Tree	local-address
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *string*

Description	Remote address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* remote-address *string*
Tree	remote-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

intf-oper-down-reason *keyword*

Description	Reason for the LDP interface being down
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 intf-oper-down-reason *keyword*
Tree	intf-oper-down-reason
Options	• ldp-interface-admin-down • ldp-instance-oper-down • network-instance-subinterface-down • out-of-resources • unknown
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	The last time when the IPv6 oper-state changed
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of IPv6 on the LDP interface
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 oper-state *keyword*
Tree	oper-state
Options	• up • down
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

override-lsr-id

Description	Enter the override-lsr-id context Options to override the LSR ID
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 override-lsr-id
Tree	override-lsr-id
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-subinterface *keyword*

Description	Use local subinterface IP address as LSR ID for interface LDP session
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 override-lsr-id local-subinterface *keyword*
Tree	local-subinterface
Options	• ipv4 Use the IPv4 address of the subinterface as the LSR ID

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- ipv6

  Use the IPv6 address of the subinterface as the LSR ID

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Statistics objects

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-message-errors

Description Enter the hello-message-errors context

Counters for received Hello message errors

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-message-errors

Tree hello-message-errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-message-length *number*

Description The number of Hello messages received with a bad message length

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-message-errors bad-message-length *number*

Tree bad-message-length

Default 0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-pdu-length *number*

Description	The number of Hello messages received with a bad PDU length
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-message-errors bad-pdu-length *number*
Tree	bad-pdu-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-protocol-version *number*

Description	The number of Hello messages received with a bad protocol version
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-message-errors bad-protocol-version *number*
Tree	bad-protocol-version
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-tlv-value *number*

Description	The number of Hello messages received with a malformed TLV value
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-message-errors malformed-tlv-value *number*
Tree	malformed-tlv-value
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-received *number*

Description	The number of Hello messages received
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-received *number*
Tree	hello-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-sent *number*

Description	The number of Hello messages sent
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics hello-sent *number*
Tree	hello-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context Configure event/packet tracing for one specific LDP interface
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 trace-options
Tree	trace-options
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace *keyword*

Description Specifies the trace information to be captured

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 trace-options trace *keyword*

Tree trace

Options

- all

  Trace all events and packets
- events-discovery

  Trace session related events
- messages-hello

  Trace Hello packets
- messages-hello-detail

  Trace LDP Hello packets with detailed output

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Configure event/packet tracing for all LDP interfaces

Context network-instance name *string* protocols ldp discovery interfaces trace-options

Tree trace-options

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description Specifies the trace information to be captured

Context network-instance name *string* protocols ldp discovery interfaces trace-options trace *keyword*

Tree trace

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Options

- all

  Trace all events and packets
- events-discovery

  Trace session related events
- messages-hello

  Trace Hello packets
- messages-hello-detail

  Trace LDP Hello packets with detailed output

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

targeted

Description Enter the targeted context

List of targeted peers for extended discovery

Context network-instance name *string* protocols ldp discovery targeted

Tree targeted

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime *number*

Description The time interval for which a LDP Hello adjacency is maintained in the absence of Hello messages from the LDP neighbor

Context network-instance name *string* protocols ldp discovery targeted hello-holdtime *number*

Tree hello-holdtime

Range 15 to 3600

Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hello-interval *number*

Description	The interval between consecutive LDP Hello messages used in LDP discovery
Context	network-instance name *string* protocols ldp discovery targeted hello-interval *number*
Tree	hello-interval
Range	5 to 1200
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Enter the ipv4 context
Context	network-instance name *string* protocols ldp discovery targeted ipv4
Tree	ipv4
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-rx

Description	Enter the auto-rx context Auto-rx targeted LDP
Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-rx
Tree	auto-rx
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable auto-rx targeted LDP adjacencies

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Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-rx admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-fec *boolean*

Description	Enable advertisement of FECs to auto-rx targets
Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-rx advertise-fec *boolean*
Tree	advertise-fec
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-tx

Description	Enter the auto-tx context Auto-tx targeted LDP
Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-tx
Tree	auto-tx
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable auto-tx targeted LDP adjacencies

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Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-tx admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-fec *boolean*

Description	Enable advertisement of FECs to auto-tx targets
Context	network-instance name *string* protocols ldp discovery targeted ipv4 auto-tx advertise-fec *boolean*
Tree	advertise-fec
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target remote-address *string*

Description	List of configured targeted LDP peers
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string*
Tree	target
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *string*

Description	Configuration of neighbor address of the targeted LDP adjacency

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Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the targeted LDP adjacency

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-fec *boolean*

Description Enable advertisement of FECs to target

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* advertise-fec *boolean*

Tree advertise-fec

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd *boolean*

Description Enable BFD

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* enable-bfd *boolean*

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Tree	enable-bfd
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-adjacencies

Description	Enter the hello-adjacencies context Container with a list of hello adjacencies
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies
Tree	hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency lsr-id *reference* label-space-id *reference*

Description	List of hello adjacencies
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Tree	adjacency
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-holdtime

Description	Enter the hello-holdtime context Container for hello holdtime state information
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime
Tree	hello-holdtime
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

negotiated *number*

Description	The holdtime negotiated between this LSR and the adjacent LSR
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime negotiated *number*
Tree	negotiated
Units	seconds
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-proposed *number*

Description	The holdtime value learned from the adjacent LSR
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime neighbor-proposed *number*
Tree	neighbor-proposed
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining *number*

Description	The time remaining until the holdtime timer expires
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-holdtime remaining *number*
Tree	remaining
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-received *number*

Description	The number of Hello messages received
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-received *number*
Tree	hello-received
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-sent *number*

Description	The number of Hello messages sent
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* hello-sent *number*
Tree	hello-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* local-address *string*
Tree	local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *string*

Description	Remote address of the hello adjacency
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-adjacencies adjacency lsr-id *reference* label-space-id *reference* remote-address *string*
Tree	remote-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hello-holdtime *number*

Description	The time interval for which a LDP Hello adjacency is maintained in the absence of Hello messages from the LDP neighbor
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-holdtime *number*
Tree	hello-holdtime
Range	15 to 3600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description	The interval between consecutive LDP Hello messages used in LDP discovery
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* hello-interval *number*
Tree	hello-interval
Range	5 to 1200
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	The last time when the adjacency oper-state changed
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Operational state of the targeted LDP adjacency

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* oper-state *keyword*

Tree oper-state

Options

- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-type *keyword*

Description The value indicates the operational type of this targeted LDP session. Session creation can be triggered by a service or can be manually configured as an example. A session that is originally triggered by service configuration may change to a manual session.

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* oper-type *keyword*

Tree oper-type

Options

- manual
- service
- auto-tx
- auto-rx

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

override-lsr-id

Description Enter the override-lsr-id context

Options to override the LSR ID

Context network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* override-lsr-id

Tree override-lsr-id

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface-ipv4 *string*

Description	Set to use configured subinterface IPv4 address as LSR ID for Targeted LDP session Configured sub-interface must either be an LDP or a loopback interface.
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* override-lsr-id subinterface-ipv4 *string*
Tree	subinterface-ipv4
String Length	5 to 27
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics objects
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-message-errors

Description	Enter the hello-message-errors context Counters for received Hello message errors
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics hello-message-errors
Tree	hello-message-errors

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-message-length *number*

Description	The number of Hello messages received with a bad message length
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics hello-message-errors bad-message-length *number*
Tree	bad-message-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-pdu-length *number*

Description	The number of Hello messages received with a bad PDU length
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics hello-message-errors bad-pdu-length *number*
Tree	bad-pdu-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-protocol-version *number*

Description	The number of Hello messages received with a bad protocol version
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics hello-message-errors bad-protocol-version *number*
Tree	bad-protocol-version
Default	0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-tlv-value *number*

Description	The number of Hello messages received with a malformed TLV value
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics hello-message-errors malformed-tlv-value *number*
Tree	malformed-tlv-value
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target-oper-down-reason *keyword*

Description	Reason for the targeted LDP adjacency being down
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* target-oper-down-reason *keyword*
Tree	target-oper-down-reason
Options	• target-admin-down • ldp-instance-oper-down • out-of-resources • unknown
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block *reference*

Description	Reference to a dynamic label block
Context	network-instance name *string* protocols ldp dynamic-label-block *reference*
Tree	dynamic-label-block

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Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block-status *keyword*

Description	Status of the label block The label block may show as unavailable if there is pending cleanup
Context	network-instance name *string* protocols ldp dynamic-label-block-status *keyword*
Tree	dynamic-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-prefix-policy *reference*

Description	Apply an export prefix policy to filter advertised label bindings
Context	network-instance name *string* protocols ldp export-prefix-policy *reference*
Tree	export-prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-resolution

Description	Enter the fec-resolution context Container with options for controlling IP prefix FEC resolution
Context	network-instance name *string* protocols ldp fec-resolution
Tree	fec-resolution

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

longest-prefix *boolean*

Description	When this is set to true IPv4/IPv6 prefix FECs can be resolved by less-specific IPv4/IPv6 routes in the route table, as long as the prefix bits of the route match the prefix bits of the FEC; the IP route with the longest prefix match is the route that is used to resolve the FEC. When this is set to false, IPv4/IPv6 prefix FECs can only be resolved by routes that are an exact match of the FEC in terms of prefix length
Context	network-instance name *string* protocols ldp fec-resolution longest-prefix *boolean*
Tree	longest-prefix
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

graceful-restart

Description	Enter the graceful-restart context Attributes for graceful restart
Context	network-instance name *string* protocols ldp graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

helper-enable *boolean*

Description	Enable or disable graceful restart as a helper
Context	network-instance name *string* protocols ldp graceful-restart helper-enable *boolean*
Tree	helper-enable

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Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-reconnect-time *number*

Description	Specifies the maximum time interval, in seconds, that this router is willing to wait for the remote LDP peer to reconnect after an LDP communication failure
Context	network-instance name *string* protocols ldp graceful-restart max-reconnect-time *number*
Tree	max-reconnect-time
Range	10 to 1800
Default	120
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-recovery-time *number*

Description	Specifies the maximum time interval, in seconds, that this router is willing to preserve its MPLS forwarding state after receiving the Initialization message from the restarted LDP peer
Context	network-instance name *string* protocols ldp graceful-restart max-recovery-time *number*
Tree	max-recovery-time
Range	30 to 3600
Default	120
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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import-prefix-policy *reference*

Description	Apply an import prefix policy to filter received label bindings
Context	network-instance name *string* protocols ldp import-prefix-policy *reference*
Tree	import-prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Enter the ipv4 context Container for configuration and state related to the IPv4 address family
Context	network-instance name *string* protocols ldp ipv4
Tree	ipv4
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bindings

Description	Enter the bindings context LDP address and label binding information
Context	network-instance name *string* protocols ldp ipv4 bindings
Tree	bindings
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-address

Description	Enter the advertised-address context
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-address

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Tree	advertised-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer lsr-id *reference* label-space-id *reference*

Description	List of LDP peers towards which IPv4 address bindings have been sent
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Tree	peer
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *string*

Description The list of IPv4 address bindings sent to the peer

Context network-instance name *string* protocols ldp ipv4 bindings advertised-address peer lsr-id *reference* label-space-id *reference* ip-address *string*

Tree ip-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-prefix-fec

Description Enter the advertised-prefix-fec context

Context network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec

Tree advertised-prefix-fec

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

Description List of IPv4 FEC-label bindings advertised to LDP peers

Context network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

Tree prefix-fec

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec *string*

Description The prefix FEC value in the FEC-label binding, advertised in a Label Mapping message sent to a peer

Context network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-lsr-fec *boolean*

Description	When set true, the router is the egress LSR for the FEC (the FEC is locally originated)
Context	network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* egress-lsr-fec *boolean*
Tree	egress-lsr-fec
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description Advertised label value

Context network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description Label status

Context network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label-status *keyword*

Tree label-status

Options

- released
- withdrawn
- wdraw-pending

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-type *keyword*

Description The label type of the advertised label

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Context	network-instance name *string* protocols ldp ipv4 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label-type *keyword*
Tree	label-type
Options	• pop An advertised label that is programmed with a POP operation • swap An advertised label that is programmed with a SWAP operation • pop-and-swap An advertised label that is programmed with both POP and SWAP operations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-address

Description	Enter the received-address context
Context	network-instance name *string* protocols ldp ipv4 bindings received-address
Tree	received-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer lsr-id *reference* label-space-id *reference*

Description	List of LDP peers from which IPv4 address bindings have been received
Context	network-instance name *string* protocols ldp ipv4 bindings received-address peer lsr-id *reference* label-space-id *reference*
Tree	peer
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings received-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings received-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	The list of IPv4 address bindings received from the peer
Context	network-instance name *string* protocols ldp ipv4 bindings received-address peer lsr-id *reference* label-space-id *reference* ip-address *string*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-prefix-fec

Description	Enter the received-prefix-fec context
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec

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Tree	received-prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

Description	List of IPv4 FEC-label bindings received from LDP peers
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Tree	prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec *string*

Description	The prefix FEC value in the FEC-label binding, learned in a Label Mapping message received from a peer
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entropy-label-transmit *boolean*

Description	Entropy label (EL/ELI) is pushed when transmitting to this peer
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* entropy-label-transmit *boolean*
Tree	entropy-label-transmit
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-lsr-fec *boolean*

Description	When set true, the router is an ingress LSR for the FEC
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* ingress-lsr-fec *boolean*
Tree	ingress-lsr-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	Received label value

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Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop index *number*

Description	List of ECMP next-hops towards the LDP peer
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Label ID index entry
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description	The outgoing interface towards the LDP peer

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Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* interface *string*
Tree	interface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	The IP next-hop towards the LDP peer
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-type *keyword*

Description	Type of next-hop
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* next-hop-type *keyword*
Tree	next-hop-type
Options	• primary • alternate • rlfa
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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outer-label *(number | keyword)*

Description Outer label value for RLFA

Context network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* outer-label *(number | keyword)*

Tree outer-label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-used-reason *keyword*

Description The reason why the label mapping is not being used in the dataplane

Context network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* not-used-reason *keyword*

Tree not-used-reason

Options

- rejected-on-rx

  The received FEC was rejected either because non-host FEC or rejected by import policy
- exceeds-multipath-limit

  The LDP multipath ECMP limit has been reached
- exceeds-fec-limit

  The FEC limit has been reached
- fec-unresolved

  The IP prefix FEC is unused because there is no resolving route matching the IP prefix

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-in-forwarding *boolean*

Description	Reads true if the label is used in forwarding and has been programmed for a push operation
Context	network-instance name *string* protocols ldp ipv4 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* used-in-forwarding *boolean*
Tree	used-in-forwarding
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*

Description	Service FEC128 binding
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Tree	service-fec128
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-circuit-type *keyword*

Description	The virtual circuit (VC) type of the pseudowire
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Options	• ethernet • vlan
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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virtual-circuit-identifier *number*

Description	The virtual circuit identifier of the pseudowire
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-lsr-id *(ipv4-address | ipv6-address)*

Description	Peer IP address, LSR-id
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised

Description	Enter the advertised context Configuration and state related to advertised service FECs
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised
Tree	advertised
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description	Whether control word capability is advertised

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Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised control-word *boolean*
Tree	control-word
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-aware-transport-label-receive-capability *boolean*

Description	Whether the capability to receive the flow-aware transport label is advertised to the peer
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised flow-aware-transport-label-receive-capability *boolean*
Tree	flow-aware-transport-label-receive-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

flow-aware-transport-label-transmit-capability *boolean*

Description	Whether the capability to transmit the flow-aware transport label is advertised to the peer
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised flow-aware-transport-label-transmit-capability *boolean*
Tree	flow-aware-transport-label-transmit-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

l2-mtu *number*

Description	Layer-2 MTU advertised to the remote peer in bytes

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Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised l2-mtu *number*
Tree	l2-mtu
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	The received label from the remote peer
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description	The status of the advertised label
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised label-status *keyword*
Tree	label-status
Options	• in-use-pop • released • withdrawn • withdraw-pending
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pw-status *boolean*

Description Whether or not the router advertising the associated label supports pseudowire status signaling

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised pw-status *boolean*

Tree pw-status

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-status *keyword*

Description Indicates the signaling status

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised signaling-status *keyword*

Tree signaling-status

Options

- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault
- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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withdraw-reason *keyword*

Description	Indicates the reason of withdrawl of the ingress label
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised withdraw-reason *keyword*
Tree	withdraw-reason
Options	• none • local-fault
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-oper-down-reason *keyword*

Description	The reason why the binding is operationally down
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* binding-oper-down-reason *keyword*
Tree	binding-oper-down-reason
Options	• vc-type-mismatch • control-word-mismatch • transport-tunnel-oper-down • ldp-resource-exhausted • no-egress-label
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-oper-state *keyword*

Description	Operational state of the binding
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* binding-oper-state *keyword*
Tree	binding-oper-state

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Options
- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description Enter the received context

Configuration and state related to received service FECs

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received

Tree received

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description Whether control word capability is received

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received control-word *boolean*

Tree control-word

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-aware-transport-label-receive-capability *boolean*

Description Whether the capability to receive the flow-aware transport label is received from the peer

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received flow-aware-transport-label-receive-capability *boolean*

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Tree	flow-aware-transport-label-receive-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

flow-aware-transport-label-transmit-capability *boolean*

Description	Whether the capability to transmit the flow-aware transport label is received from the peer
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received flow-aware-transport-label-transmit-capability *boolean*
Tree	flow-aware-transport-label-transmit-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

l2-mtu *number*

Description	Layer-2 MTU received from the remote peer in bytes
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received l2-mtu *number*
Tree	l2-mtu
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	The received label from the remote peer
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received label *(number | keyword)*
Tree	label

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Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description	The status of the received label
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address* | *ipv6-address)* received label-status *keyword*
Tree	label-status
Options	• in-use-push • released • withdrawn • withdraw-pending
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pw-status *boolean*

Description	Whether or not the router advertising the associated label supports pseudowire status signaling
Context	network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address* | *ipv6-address)* received pw-status *boolean*
Tree	pw-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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signaling-status *keyword*

Description Indicates the signaling status

Context network-instance name *string* protocols ldp ipv4 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received signaling-status *keyword*

Tree signaling-status

Options

- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault
- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description The last time that the IPv4 oper-state changed

Context network-instance name *string* protocols ldp ipv4 last-oper-state-change *string*

Tree last-oper-state-change

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *string*

Description Returns the value that is being used as the LDP LSR ID

Context network-instance name *string* protocols ldp ipv4 lsr-id *string*

Tree lsr-id

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	The reason for the LDP for IPv4 being operationally down
Context	network-instance name *string* protocols ldp ipv4 oper-down-reason *keyword*
Tree	oper-down-reason
Options	• ldp-admin-disabled • mpls-admin-disabled • no-system-ipv4-address System IPv4 address is used as the LSR ID. If this depedency is missing LDP is down • net-instance-mgr-down • label-block-unavailable • no-resource Memory allocation failure • unknown Other failure reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of LDP for IPv4
Context	network-instance name *string* protocols ldp ipv4 oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty

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- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-up-to-down-transitions *number*

Description The number of times the oper state for IPv4 has transitioned from up to down

Context network-instance name *string* protocols ldp ipv4 oper-up-to-down-transitions *number*

Tree oper-up-to-down-transitions

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context Container for configuration and state related to the IPv6 address family
Context	network-instance name *string* protocols ldp ipv6
Tree	ipv6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bindings

Description	Enter the bindings context LDP address and label binding information
Context	network-instance name *string* protocols ldp ipv6 bindings
Tree	bindings
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-address

Description	Enter the advertised-address context
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-address
Tree	advertised-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer lsr-id *reference* label-space-id *reference*

Description	List of LDP peers towards which IPv6 address bindings have been sent
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Tree	peer
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	The list of IPv6 address bindings sent to the peer

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Context	network-instance name *string* protocols ldp ipv6 bindings advertised-address peer lsr-id *reference* label-space-id *reference* ip-address *string*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-prefix-fec

Description	Enter the advertised-prefix-fec context
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec
Tree	advertised-prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

Description	List of IPv6 FEC-label bindings advertised to LDP peers
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Tree	prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec *string*

Description	The prefix FEC value in the FEC-label binding, advertised in a Label Mapping message sent to a peer
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-lsr-fec *boolean*

Description	When set true, the router is the egress LSR for the FEC (the FEC is locally originated)
Context	network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* egress-lsr-fec *boolean*
Tree	egress-lsr-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	Advertised label value

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Context network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description Label status

Context network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label-status *keyword*

Tree label-status

Options

- released
- withdrawn
- wdraw-pending

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-type *keyword*

Description The label type of the advertised label

Context network-instance name *string* protocols ldp ipv6 bindings advertised-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label-type *keyword*

Tree label-type

Options

- pop

  An advertised label that is programmed with a POP operation
- swap

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An advertised label that is programmed with a SWAP operation

- pop-and-swap

  An advertised label that is programmed with both POP and SWAP operations

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-address

Description Enter the received-address context

Context network-instance name *string* protocols ldp ipv6 bindings received-address

Tree received-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer lsr-id *reference* label-space-id *reference*

Description List of LDP peers from which IPv6 address bindings have been received

Context network-instance name *string* protocols ldp ipv6 bindings received-address peer lsr-id *reference* label-space-id *reference*

Tree peer

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description The LSR ID of the peer, as a portion of the peer LDP ID

Context network-instance name *string* protocols ldp ipv6 bindings received-address peer lsr-id *reference* label-space-id *reference*

Reference network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings received-address peer lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	The list of IPv6 address bindings received from the peer
Context	network-instance name *string* protocols ldp ipv6 bindings received-address peer lsr-id *reference* label-space-id *reference* ip-address *string*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-prefix-fec

Description	Enter the received-prefix-fec context
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec
Tree	received-prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

Description	List of IPv6 FEC-label bindings received from LDP peers
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Tree	prefix-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec *string*

Description	The prefix FEC value in the FEC-label binding, learned in a Label Mapping message received from a peer
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *reference*

Description	The LSR ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*
Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *reference*

Description	The Label Space ID of the peer, as a portion of the peer LDP ID
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference*

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Reference	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entropy-label-transmit *boolean*

Description	Entropy label (EL/ELI) is pushed when transmitting to this peer
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* entropy-label-transmit *boolean*
Tree	entropy-label-transmit
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-lsr-fec *boolean*

Description	When set true, the router is an ingress LSR for the FEC
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* ingress-lsr-fec *boolean*
Tree	ingress-lsr-fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	Received label value
Context	network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL

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- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop index *number*

Description List of ECMP next-hops towards the LDP peer

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number*

Tree next-hop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Label ID index entry

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description The outgoing interface towards the LDP peer

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* interface *string*

Tree interface

String Length 5 to 27

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description The IP next-hop towards the LDP peer

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* next-hop *(ipv4-address | ipv6-address)*

Tree next-hop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-type *keyword*

Description Type of next-hop

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* next-hop-type *keyword*

Tree next-hop-type

Options

- primary
- alternate
- rlfa

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outer-label *(number | keyword)*

Description Outer label value for RLFA

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* next-hop index *number* outer-label *(number | keyword)*

Tree outer-label

Range 16 to 1048575

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Options
- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-used-reason *keyword*

Description The reason why the label mapping is not being used in the dataplane

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* not-used-reason *keyword*

Tree not-used-reason

Options
- rejected-on-rx

  The received FEC was rejected either because non-host FEC or rejected by import policy
- exceeds-multipath-limit

  The LDP multipath ECMP limit has been reached
- exceeds-fec-limit

  The FEC limit has been reached
- fec-unresolved

  The IP prefix FEC is unused because there is no resolving route matching the IP prefix

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-in-forwarding *boolean*

Description Reads true if the label is used in forwarding and has been programmed for a push operation

Context network-instance name *string* protocols ldp ipv6 bindings received-prefix-fec prefix-fec fec *string* lsr-id *reference* label-space-id *reference* used-in-forwarding *boolean*

Tree used-in-forwarding

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*

Description	Service FEC128 binding
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Tree	service-fec128
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-circuit-type *keyword*

Description	The virtual circuit (VC) type of the pseudowire
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Options	• ethernet • vlan
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-circuit-identifier *number*

Description	The virtual circuit identifier of the pseudowire
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Range	1 to 4294967295
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-lsr-id *(ipv4-address | ipv6-address)*

Description	Peer IP address, LSR-id
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised

Description	Enter the advertised context Configuration and state related to advertised service FECs
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised
Tree	advertised
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description	Whether control word capability is advertised
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised control-word *boolean*
Tree	control-word
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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flow-aware-transport-label-receive-capability *boolean*

Description	Whether the capability to receive the flow-aware transport label is advertised to the peer
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised flow-aware-transport-label-receive-capability *boolean*
Tree	flow-aware-transport-label-receive-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

flow-aware-transport-label-transmit-capability *boolean*

Description	Whether the capability to transmit the flow-aware transport label is advertised to the peer
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised flow-aware-transport-label-transmit-capability *boolean*
Tree	flow-aware-transport-label-transmit-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

l2-mtu *number*

Description	Layer-2 MTU advertised to the remote peer in bytes
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised l2-mtu *number*
Tree	l2-mtu
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label *(number | keyword)*

Description The received label from the remote peer

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description The status of the advertised label

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised label-status *keyword*

Tree label-status

Options

- in-use-pop
- released
- withdrawn
- withdraw-pending

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pw-status *boolean*

Description Whether or not the router advertising the associated label supports pseudowire status signaling

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Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised pw-status *boolean*

Tree pw-status

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-status *keyword*

Description Indicates the signaling status

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised signaling-status *keyword*

Tree signaling-status

Options

- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault
- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

withdraw-reason *keyword*

Description Indicates the reason of withdrawl of the ingress label

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* advertised withdraw-reason *keyword*

Tree withdraw-reason

Options

- none
- local-fault

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-oper-down-reason *keyword*

Description	The reason why the binding is operationally down
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* binding-oper-down-reason *keyword*
Tree	binding-oper-down-reason
Options	• vc-type-mismatch • control-word-mismatch • transport-tunnel-oper-down • ldp-resource-exhausted • no-egress-label
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-oper-state *keyword*

Description	Operational state of the binding
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* binding-oper-state *keyword*
Tree	binding-oper-state
Options	• up • down
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received

Description	Enter the received context Configuration and state related to received service FECs
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received
Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-word *boolean*

Description	Whether control word capability is received
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received control-word *boolean*
Tree	control-word
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-aware-transport-label-receive-capability *boolean*

Description	Whether the capability to receive the flow-aware transport label is received from the peer
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received flow-aware-transport-label-receive-capability *boolean*
Tree	flow-aware-transport-label-receive-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

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flow-aware-transport-label-transmit-capability *boolean*

Description	Whether the capability to transmit the flow-aware transport label is received from the peer
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received flow-aware-transport-label-transmit-capability *boolean*
Tree	flow-aware-transport-label-transmit-capability
Configurable	False
Platforms	Supported on 7250 IXR-H5, 7250 IXR-H6, 7250 IXR-D4-ALL, 7250 IXR (excluding mixed-mode), 7250 IXR-D2, 7250 IXR-D2L, 7250 IXR-D3, 7250 IXR-D3L, 7250 IXR-D5.

l2-mtu *number*

Description	Layer-2 MTU received from the remote peer in bytes
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received l2-mtu *number*
Tree	l2-mtu
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	The received label from the remote peer
Context	network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-status *keyword*

Description The status of the received label

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received label-status *keyword*

Tree label-status

Options

- in-use-push
- released
- withdrawn
- withdraw-pending

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pw-status *boolean*

Description Whether or not the router advertising the associated label supports pseudowire status signaling

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received pw-status *boolean*

Tree pw-status

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-status *keyword*

Description Indicates the signaling status

Context network-instance name *string* protocols ldp ipv6 bindings service-fec128 virtual-circuit-type *keyword* virtual-circuit-identifier *number* peer-lsr-id *(ipv4-address | ipv6-address)* received signaling-status *keyword*

Tree signaling-status

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Options
- pseudowire-forwarding
- pseudowire-not-forwarding
- local-attachment-circuit-ingress-fault
- local-attachment-circuit-egress-fault
- provider-service-network-ingress-fault
- provider-service-network-egress-fault
- pseudowire-forwarding-standby
- pseudowire-request-switchover

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description The last time that the IPv6 oper-state changed

Context network-instance name *string* protocols ldp ipv6 last-oper-state-change *string*

Tree last-oper-state-change

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *string*

Description Returns the value that is being used as the LDP LSR ID

Context network-instance name *string* protocols ldp ipv6 lsr-id *string*

Tree lsr-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the LDP for IPv6 being operationally down

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Context network-instance name *string* protocols ldp ipv6 oper-down-reason *keyword*

Tree oper-down-reason

Options

- ldp-admin-disabled
- mpls-admin-disabled
- no-system-ipv6-address

  System IPv6 address is used as the LSR ID. If this depedency is missing LDP is down
- net-instance-mgr-down
- label-block-unavailable
- no-resource

  Memory allocation failure
- unknown

  Other failure reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of LDP for IPv6

Context network-instance name *string* protocols ldp ipv6 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed

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- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-up-to-down-transitions *number*

Description The number of times the oper state for IPv6 has transitioned from up to down

Context network-instance name *string* protocols ldp ipv6 oper-up-to-down-transitions *number*

Tree oper-up-to-down-transitions

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-withdrawal-delay *number*

Description Configure the time interval that LDP delays the withdrawal of its label

Context network-instance name *string* protocols ldp label-withdrawal-delay *number*

Tree label-withdrawal-delay

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Range	3 to 120
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopfree-alternate

Description	Enter the loopfree-alternate context
Context	network-instance name *string* protocols ldp loopfree-alternate
Tree	loopfree-alternate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable Loop Free Alternates
Context	network-instance name *string* protocols ldp loopfree-alternate admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multipath

Description	Enter the multipath context Container with options to configure load-balancing over equal-cost paths
Context	network-instance name *string* protocols ldp multipath
Tree	multipath

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-paths *number*

Description	Specifies the maximum number of next-hops used for load-balancing toward towards a given FEC
Context	network-instance name *string* protocols ldp multipath max-paths *number*
Tree	max-paths
Range	1 to 64
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

null-label *keyword*

Description	Null label signalling at egress
Context	network-instance name *string* protocols ldp null-label *keyword*
Tree	null-label
Options	• implicit Triggers signalling of implicit null label for all prefix FECs
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peers

Description	Enter the peers context Configuration and state related to peers
Context	network-instance name *string* protocols ldp peers
Tree	peers
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*

Description	List of peers
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	The LSR ID of the peer, to identify the globally unique LSR. This leaf is used together with the leaf 'label-space-id' to form the LDP ID
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *number*

Description	The Label Space ID of the peer, to identify a specific label space within the LSR. This is the last two octets of the LDP ID. This leaf is used together with the leaf 'lsr-id' to form the LDP ID
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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adjacency-type *keyword*

Description The value indicates the adjacency type

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* adjacency-type *keyword*

Tree adjacency-type

Options

- link
- targeted
- both

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adv-local-lsr-id *boolean*

Description When set to true, the FEC for the local LSR ID is advertised.

When set to false, the FEC for the local LSR ID is not advertised

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* adv-local-lsr-id *boolean*

Tree adv-local-lsr-id

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-of-lib

Description Enter the end-of-lib context

Container with state information pertaining to sent and received End of LIB markers

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib

Tree end-of-lib

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-prefix-fecs

Description Enter the ipv4-prefix-fecs context

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv4-prefix-fecs

Tree ipv4-prefix-fecs

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description When this is true, an End-of-LIB marker was received from the LDP peer

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv4-prefix-fecs received *boolean*

Tree received

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent *boolean*

Description When this is true, an End-of-LIB marker was sent to the LDP peer

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv4-prefix-fecs sent *boolean*

Tree sent

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-prefix-fecs

Description Enter the ipv6-prefix-fecs context

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv6-prefix-fecs

Tree ipv6-prefix-fecs

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description When this is true, an End-of-LIB marker was received from the LDP peer

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv6-prefix-fecs received *boolean*

Tree received

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent *boolean*

Description When this is true, an End-of-LIB marker was sent to the LDP peer

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* end-of-lib ipv6-prefix-fecs sent *boolean*

Tree sent

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-prefix-policy *reference*

Description Apply an export prefix policy to filter advertised label bindings

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Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* export-prefix-policy *reference*
Tree	export-prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-limit *number*

Description	The maximum number of FECs of all types combined that will be accepted from the peer The value 0 implies no limit
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* fec-limit *number*
Tree	fec-limit
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-limit-exceeded *boolean*

Description	Reads true when the peer has sent more FECs than the configured limit
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* fec-limit-exceeded *boolean*
Tree	fec-limit-exceeded
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-type-capability

Description	Enter the fec-type-capability context

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Configuration of FEC type capability

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* fec-type-capability

Tree fec-type-capability

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

graceful-restart

Description Enter the graceful-restart context

Graceful restart operational state

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* graceful-restart

Tree graceful-restart

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-reconnect-time *number*

Description The requested reconnect time

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* graceful-restart peer-reconnect-time *number*

Tree peer-reconnect-time

Range 10 to 1800

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer-recovery-time *number*

Description	The requested recovery time
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* graceful-restart peer-recovery-time *number*
Tree	peer-recovery-time
Range	30 to 3600
Default	120
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-restarting *boolean*

Description	If true, the peer is currently in the process of restarting
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* graceful-restart peer-restarting *boolean*
Tree	peer-restarting
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-prefix-policy *reference*

Description	Apply an import prefix policy to filter received label bindings
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* import-prefix-policy *reference*
Tree	import-prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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label-advertisement-mode

Description Enter the label-advertisement-mode context

Label advertisement mode state

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* label-advertisement-mode

Tree label-advertisement-mode

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

negotiated *keyword*

Description Negotiated Label Advertisement Mode

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* label-advertisement-mode negotiated *keyword*

Tree negotiated

Options

- downstream-unsolicited

  Downstream Unsolicited
- downstream-on-demand

  Downstream on Demand

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description Last time the peer state changed

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* last-oper-state-change *string*

Tree last-oper-state-change

String Length 20 to 32

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

overload

Description	Enter the overload context Overload state of the session
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* overload
Tree	overload
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-router-is-overloaded *boolean*

Description	This router transmitted an overload TLV requesting that the peer stop advertising new FECs
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* overload local-router-is-overloaded *boolean*
Tree	local-router-is-overloaded
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-is-overloaded *boolean*

Description	The peer has sent an overload TLV to this router requesting that we stop advertising new FECs
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* overload peer-is-overloaded *boolean*
Tree	peer-is-overloaded
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-capabilities

Description	Enter the received-capabilities context Capabilities signalled by the peer
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities
Tree	received-capabilities
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dual-stack-capability *boolean*

Description	Dual stack capability. TLV 0x0701
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities dual-stack-capability *boolean*
Tree	dual-stack-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-capability *boolean*

Description	Dynamic capability advertisement capability. Indicates support for Capability messages. TLV 0x0506
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities dynamic-capability *boolean*
Tree	dynamic-capability
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entropy-label-capability *boolean*

Description	Entropy label capability. TLV 0x0206
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities entropy-label-capability *boolean*
Tree	entropy-label-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

graceful-restart-capability *boolean*

Description	Fault tolerance protection TLV 0x0503
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities graceful-restart-capability *boolean*
Tree	graceful-restart-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

make-before-break-capability *boolean*

Description	Make before break capability. TLV 0x050A
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities make-before-break-capability *boolean*
Tree	make-before-break-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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multipoint-to-multipoint-capability *boolean*

Description	Multipoint to multipoint FEC capability. TLV 0x0509
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities multipoint-to-multipoint-capability *boolean*
Tree	multipoint-to-multipoint-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nokia-vendor-overload-capability *boolean*

Description	Overload capability
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities nokia-vendor-overload-capability *boolean*
Tree	nokia-vendor-overload-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

point-to-multipoint-capability *boolean*

Description	Point to multipoint FEC capability. TLV 0x0508
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities point-to-multipoint-capability *boolean*
Tree	point-to-multipoint-capability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-advertisement-control

Description	Enter the state-advertisement-control context

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State advertisement control capability. TLV 0x050D

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities state-advertisement-control

Tree state-advertisement-control

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-prefix-disable *boolean*

Description Indicates desire to not receive IPv4 prefix FECs

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities state-advertisement-control ipv4-prefix-disable *boolean*

Tree ipv4-prefix-disable

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-prefix-disable *boolean*

Description Indicates desire to not receive IPv6 prefix FECs

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities state-advertisement-control ipv6-prefix-disable *boolean*

Tree ipv6-prefix-disable

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-pseudowire-fec-128-disable *boolean*

Description Indicates desire to not receive P2P PW FEC 128 FECs

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-

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capabilities state-advertisement-control p2p-pseudowire-fec-128-disable *boolean*

Tree p2p-pseudowire-fec-128-disable

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

p2p-pseudowire-fec-129-disable *boolean*

Description Indicates desire to not receive P2P PW FEC 129 FECs

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities state-advertisement-control p2p-pseudowire-fec-129-disable *boolean*

Tree p2p-pseudowire-fec-129-disable

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unrecognized-notification-capability *boolean*

Description Unrecognized notification capability. TLV 0x0603

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* received-capabilities unrecognized-notification-capability *boolean*

Tree unrecognized-notification-capability

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-holdtime

Description Enter the session-holdtime context

Session holdtime state

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* session-holdtime

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Tree	session-holdtime
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

negotiated *number*

Description	Negotiated holdtime
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* session-holdtime negotiated *number*
Tree	negotiated
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-proposed *number*

Description	Peer holdtime
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* session-holdtime peer-proposed *number*
Tree	peer-proposed
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remaining *number*

Description	Remaining holdtime
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* session-holdtime remaining *number*
Tree	remaining

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Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-state *keyword*

Description	Representing the operational status of the LDP session
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* session-state *keyword*
Tree	session-state
Options	• non-existent NON EXISTENT state. Transport disconnected • initialized INITIALIZED state • openrec OPENREC state • opensent OPENSENT state • operational OPERATIONAL state
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics objects
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics
Tree	statistics
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-statistics

Description Enter the address-statistics context

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics

Tree address-statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv4

Tree ipv4

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-addresses *number*

Description The number of IPv4 addresses advertised to a peer

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv4 advertised-addresses *number*

Tree advertised-addresses

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-addresses *number*

Description	The number of IPv4 addresses received from a peer
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv4 received-addresses *number*
Tree	received-addresses
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv6
Tree	ipv6
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-addresses *number*

Description	The number of IPv6 addresses advertised to a peer
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv6 advertised-addresses *number*
Tree	advertised-addresses
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-addresses *number*

Description	The number of IPv6 addresses received from a peer
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics address-statistics ipv6 received-addresses *number*
Tree	received-addresses
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-statistics

Description	Enter the fec-statistics context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics
Tree	fec-statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-prefix

Description	Enter the ipv4-prefix context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv4-prefix
Tree	ipv4-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertised-fecs *number*

Description	The number of advertised IPv4 prefix FECs to a single peer or all peers. In the overall summary the same FEC prefix advertised to multiple peers counts as 1
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv4-prefix advertised-fecs *number*
Tree	advertised-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-fecs *number*

Description	The number of received IPv4 prefix FECs from a single peer or all peers. In the overall summary the same FEC prefix from different peers counts as 1
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv4-prefix received-fecs *number*
Tree	received-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-prefix

Description	Enter the ipv6-prefix context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv6-prefix
Tree	ipv6-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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advertised-fecs *number*

Description	The number of advertised IPv6 prefix FECs to a single peer or all peers. In the overall summary the same FEC prefix advertised to multiple peers counts as 1
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv6-prefix advertised-fecs *number*
Tree	advertised-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-fecs *number*

Description	The number of received IPv6 prefix FECs from a single peer or all peers. In the overall summary the same FEC prefix from different peers counts as 1
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics fec-statistics ipv6-prefix received-fecs *number*
Tree	received-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-messages

Description	Enter the received-messages context Inbound statistics
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages
Tree	received-messages
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *number*

Description	The number of address messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages address *number*
Tree	address
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-withdraw *number*

Description	The number of address-withdraw messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages address-withdraw *number*
Tree	address-withdraw
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capability *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages capability *number*
Tree	capability
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

initialization *number*

Description	The number of initialization messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages initialization *number*
Tree	initialization
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive *number*

Description	The number of keepalive messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages keepalive *number*
Tree	keepalive
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-abort-request *number*

Description	The number of label-abort-request messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages label-abort-request *number*
Tree	label-abort-request
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-mapping *number*

Description	The number of label-mapping messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages label-mapping *number*
Tree	label-mapping
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-release *number*

Description	The number of label-release messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages label-release *number*
Tree	label-release
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-request *number*

Description	The number of label-request messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages label-request *number*
Tree	label-request
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-withdraw *number*

Description	The number of label-withdraw messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages label-withdraw *number*
Tree	label-withdraw
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

notification *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages notification *number*
Tree	notification
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-messages *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics received-messages total-messages *number*
Tree	total-messages
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-messages

Description	Enter the sent-messages context Outbound statistics
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages
Tree	sent-messages
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *number*

Description	The number of address messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages address *number*
Tree	address
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-withdraw *number*

Description	The number of address-withdraw messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages address-withdraw *number*
Tree	address-withdraw
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capability *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages capability *number*
Tree	capability
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

initialization *number*

Description	The number of initialization messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages initialization *number*
Tree	initialization
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive *number*

Description	The number of keepalive messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages keepalive *number*
Tree	keepalive
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-abort-request *number*

Description	The number of label-abort-request messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages label-abort-request *number*
Tree	label-abort-request
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-mapping *number*

Description	The number of label-mapping messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages label-mapping *number*
Tree	label-mapping
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-release *number*

Description	The number of label-release messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages label-release *number*
Tree	label-release
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-request *number*

Description	The number of label-request messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages label-request *number*
Tree	label-request
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-withdraw *number*

Description	The number of label-withdraw messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages label-withdraw *number*
Tree	label-withdraw
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

notification *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages notification *number*
Tree	notification
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-messages *number*

Description	The number of messages sent or received
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* statistics sent-messages total-messages *number*
Tree	total-messages
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-transport

Description	Enter the tcp-transport context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* tcp-transport
Tree	tcp-transport
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description	Local address
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* tcp-transport local-address *(ipv4-address | ipv6-address)*
Tree	local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local-port *number*

Description	Local port number
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* tcp-transport local-port *number*
Tree	local-port
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *(ipv4-address \| ipv6-address)*

Description	Remote address
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* tcp-transport remote-address *(ipv4-address | ipv6-address)*
Tree	remote-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-port *number*

Description	Remote port number
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* tcp-transport remote-port *number*
Tree	remote-port
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace-options

Description Enter the trace-options context

Configure event/packet tracing for one specific session

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* trace-options

Tree trace-options

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description Specifies the trace information to be captured

Context network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)* label-space-id *number* trace-options trace *keyword*

Tree trace

Options

- all

  Trace all events and packets
- events-all

  Trace all events
- events-session

  Trace session related events
- events-binding

  Trace binding related events
- messages-all

  Trace all LDP messages
- messages-all-detail

  Trace all LDP messages with detailed output
- messages-initialization

  Trace LDP Initialization packets
- messages-initialization-detail

  Trace LDP Initialization packets with detailed output
- messages-keepalive

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Trace LDP Keepalive packets

- messages-label

  Trace LDP Label Mapping, Label Request, Label Abort Request, Label Withdraw and Label Release packets

- messages-label-detail

  Trace LDP Label Mapping, Label Request, Label Abort Request, Label Withdraw and Label Release packets with detailed output

- messages-hello

  Trace Hello packets

- messages-hello-detail

  Trace LDP Hello packets with detailed output

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-keepalive-holdtime *number*

Description The time interval after which an inactive LDP session terminates and the corresponding TCP session closes. Inactivity is defined as not receiving LDP packets from the peer

Context network-instance name *string* protocols ldp peers session-keepalive-holdtime *number*

Tree session-keepalive-holdtime

Range 45 to 3600

Default 180

Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-keepalive-interval *number*

Description The interval between successive transmissions of keepalive packets. Keepalive packets are only sent in the absence of other LDP packets transmitted over the LDP session

Context network-instance name *string* protocols ldp peers session-keepalive-interval *number*

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Tree	session-keepalive-interval
Range	15 to 1200
Default	60
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context Configure event/packet tracing for all sessions (configured and dynamic)
Context	network-instance name *string* protocols ldp peers trace-options
Tree	trace-options
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description	Specifies the trace information to be captured
Context	network-instance name *string* protocols ldp peers trace-options trace *keyword*
Tree	trace
Options	• all Trace all events and packets • events-all Trace all events • events-session Trace session related events • events-binding Trace binding related events • messages-all Trace all LDP messages • messages-all-detail

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Trace all LDP messages with detailed output

- messages-initialization

  Trace LDP Initialization packets

- messages-initialization-detail

  Trace LDP Initialization packets with detailed output

- messages-keepalive

  Trace LDP Keepalive packets

- messages-label

  Trace LDP Label Mapping, Label Request, Label Abort Request, Label Withdraw and Label Release packets

- messages-label-detail

  Trace LDP Label Mapping, Label Request, Label Abort Request, Label Withdraw and Label Release packets with detailed output

- messages-hello

  Trace Hello packets

- messages-hello-detail

  Trace LDP Hello packets with detailed output

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-fec fec-prefix *(ipv4-prefix-unicast | ipv6-prefix-unicast)*

Description Configure static FEC

Context network-instance name *string* protocols ldp static-fec fec-prefix *(ipv4-prefix-unicast | ipv6-prefix-unicast)*

Tree static-fec

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-prefix *(ipv4-prefix-unicast | ipv6-prefix-unicast)*

Description Static FEC IP prefix

Context network-instance name *string* protocols ldp static-fec fec-prefix *(ipv4-prefix-unicast | ipv6-prefix-unicast)*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

swap *boolean*

Description	Swap label. If false, label is popped
Context	network-instance name *string* protocols ldp static-fec fec-prefix *(ipv4-prefix-unicast | ipv6-prefix-unicast)* swap *boolean*
Tree	swap
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context LDP instance level statistics
Context	network-instance name *string* protocols ldp statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec-statistics

Description	Enter the fec-statistics context
Context	network-instance name *string* protocols ldp statistics fec-statistics
Tree	fec-statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4-prefix

Description	Enter the ipv4-prefix context
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv4-prefix
Tree	ipv4-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-fecs *number*

Description	The number of advertised IPv4 prefix FECs to a single peer or all peers. In the overall summary the same FEC prefix advertised to multiple peers counts as 1
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv4-prefix advertised-fecs *number*
Tree	advertised-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-fecs *number*

Description	The number of received IPv4 prefix FECs from a single peer or all peers. In the overall summary the same FEC prefix from different peers counts as 1
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv4-prefix received-fecs *number*
Tree	received-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-prefix

Description	Enter the ipv6-prefix context
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv6-prefix
Tree	ipv6-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertised-fecs *number*

Description	The number of advertised IPv6 prefix FECs to a single peer or all peers. In the overall summary the same FEC prefix advertised to multiple peers counts as 1
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv6-prefix advertised-fecs *number*
Tree	advertised-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-fecs *number*

Description	The number of received IPv6 prefix FECs from a single peer or all peers. In the overall summary the same FEC prefix from different peers counts as 1
Context	network-instance name *string* protocols ldp statistics fec-statistics ipv6-prefix received-fecs *number*
Tree	received-fecs
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4

Description	Enter the ipv4 context
Context	network-instance name *string* protocols ldp statistics ipv4
Tree	ipv4
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-discovery-interfaces *number*

Description	The total number of IP subinterfaces on which basic LDP discovery is active
Context	network-instance name *string* protocols ldp statistics ipv4 total-discovery-interfaces *number*
Tree	total-discovery-interfaces
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-discovery-targets *number*

Description	The total number of configured extended discovery targets
Context	network-instance name *string* protocols ldp statistics ipv4 total-discovery-targets *number*
Tree	total-discovery-targets
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-interface-hello-adjacencies *number*

Description	The total number of interface hello adjacencies that are up
Context	network-instance name *string* protocols ldp statistics ipv4 total-interface-hello-adjacencies *number*
Tree	total-interface-hello-adjacencies

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-peers *number*

Description	The total number of LDP TCP sessions that are established
Context	network-instance name *string* protocols ldp statistics ipv4 total-peers *number*
Tree	total-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-targeted-hello-adjacencies *number*

Description	The total number of targeted hello adjacencies that are up
Context	network-instance name *string* protocols ldp statistics ipv4 total-targeted-hello-adjacencies *number*
Tree	total-targeted-hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context
Context	network-instance name *string* protocols ldp statistics ipv6
Tree	ipv6
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-discovery-interfaces *number*

Description	The total number of IP subinterfaces on which basic LDP discovery is active

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Context	network-instance name *string* protocols ldp statistics ipv6 total-discovery-interfaces *number*
Tree	total-discovery-interfaces
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-discovery-targets *number*

Description	The total number of configured extended discovery targets
Context	network-instance name *string* protocols ldp statistics ipv6 total-discovery-targets *number*
Tree	total-discovery-targets
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-interface-hello-adjacencies *number*

Description	The total number of interface hello adjacencies that are up
Context	network-instance name *string* protocols ldp statistics ipv6 total-interface-hello-adjacencies *number*
Tree	total-interface-hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-peers *number*

Description	The total number of LDP TCP sessions that are established
Context	network-instance name *string* protocols ldp statistics ipv6 total-peers *number*
Tree	total-peers
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-targeted-hello-adjacencies *number*

Description	The total number of targeted hello adjacencies that are up
Context	network-instance name *string* protocols ldp statistics ipv6 total-targeted-hello-adjacencies *number*
Tree	total-targeted-hello-adjacencies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-errors

Description	Enter the protocol-errors context
Context	network-instance name *string* protocols ldp statistics protocol-errors
Tree	protocol-errors
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-ldp-identifier *number*

Description	The number of notification messages sent to advise of a bad LDP identifier
Context	network-instance name *string* protocols ldp statistics protocol-errors bad-ldp-identifier *number*
Tree	bad-ldp-identifier
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-message-length *number*

Description	The number of notification messages sent to advise of a bad message length
Context	network-instance name *string* protocols ldp statistics protocol-errors bad-message-length *number*

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Tree	bad-message-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-pdu-length *number*

Description	The number of notification messages sent to advise of a bad PDU length
Context	network-instance name *string* protocols ldp statistics protocol-errors bad-pdu-length *number*
Tree	bad-pdu-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-protocol-version *number*

Description	The number of notification messages sent to advise of a bad protocol version
Context	network-instance name *string* protocols ldp statistics protocol-errors bad-protocol-version *number*
Tree	bad-protocol-version
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-tlv-length *number*

Description	The number of notification messages sent to advise of a bad TLV length
Context	network-instance name *string* protocols ldp statistics protocol-errors bad-tlv-length *number*
Tree	bad-tlv-length
Default	0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-tlv-value *number*

Description	The number of notification messages sent to advise of a malformed TLV value
Context	network-instance name *string* protocols ldp statistics protocol-errors malformed-tlv-value *number*
Tree	malformed-tlv-value
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

missing-message-parameters *number*

Description	The number of notification messages sent to advise of missing mandatory parameters
Context	network-instance name *string* protocols ldp statistics protocol-errors missing-message-parameters *number*
Tree	missing-message-parameters
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-rejected-bad-keepalive-time *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because the requested keepalive time is not acceptable
Context	network-instance name *string* protocols ldp statistics protocol-errors session-rejected-bad-keepalive-time *number*
Tree	session-rejected-bad-keepalive-time
Default	0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-rejected-no-hello *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because there was no matching Hello adjacency
Context	network-instance name *string* protocols ldp statistics protocol-errors session-rejected-no-hello *number*
Tree	session-rejected-no-hello
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-rejected-parameters-adv-mode *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because the requested label advertisement mode is not acceptable
Context	network-instance name *string* protocols ldp statistics protocol-errors session-rejected-parameters-adv-mode *number*
Tree	session-rejected-parameters-adv-mode
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-rejected-parameters-label-range *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because the requested label range is not acceptable
Context	network-instance name *string* protocols ldp statistics protocol-errors session-rejected-parameters-label-range *number*
Tree	session-rejected-parameters-label-range
Default	0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-rejected-parameters-max-pdu-length *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because the requested Maximum PDU Length is not acceptable
Context	network-instance name *string* protocols ldp statistics protocol-errors session-rejected-parameters-max-pdu-length *number*
Tree	session-rejected-parameters-max-pdu-length
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-message-type *number*

Description	The number of notification messages sent to advise of an unknown message type
Context	network-instance name *string* protocols ldp statistics protocol-errors unknown-message-type *number*
Tree	unknown-message-type
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-tlv *number*

Description	The number of notification messages sent to advise of an unknown TLV
Context	network-instance name *string* protocols ldp statistics protocol-errors unknown-tlv *number*
Tree	unknown-tlv
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unsupported-address-family *number*

Description	The number of notification messages sent to advise that a TCP connection was closed because the FEC type is not IPv4 or IPv6
Context	network-instance name *string* protocols ldp statistics protocol-errors unsupported-address-family *number*
Tree	unsupported-address-family
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sessions-terminated-holdtime-expiry *number*

Description	The total number of LDP sessions that were terminated due to keepalive holdtime expiry
Context	network-instance name *string* protocols ldp statistics sessions-terminated-holdtime-expiry *number*
Tree	sessions-terminated-holdtime-expiry
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-down-damp-time *number*

Description	Configure the time interval that LDP damps a tunnel down event
Context	network-instance name *string* protocols ldp tunnel-down-damp-time *number*
Tree	tunnel-down-damp-time
Range	0 to 20
Default	3
Units	seconds
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linux

Description	Enter the linux context Enables routing interaction with the Linux kernel
Context	network-instance name *string* protocols linux
Tree	linux
Configurable	True
Platforms	Supported on all platforms

export-neighbors *boolean*

Description	Export neighbors to linux routing table
Context	network-instance name *string* protocols linux export-neighbors *boolean*
Tree	export-neighbors
Default	true
Configurable	True
Platforms	Supported on all platforms

export-routes *boolean*

Description	Export routes to linux routing table
Context	network-instance name *string* protocols linux export-routes *boolean*
Tree	export-routes
Default	false
Configurable	True
Platforms	Supported on all platforms

import-routes *boolean*

Description	Import routes from linux routing table
Context	network-instance name *string* protocols linux import-routes *boolean*
Tree	import-routes

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Default	false
Configurable	True
Platforms	Supported on all platforms

mld

Description	Enable the mld context
Context	network-instance name *string* protocols mld
Tree	mld
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable the MLD instance
Context	network-instance name *string* protocols mld admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-count *number*

Description	The number of multicast groups which have been learned on this instance
Context	network-instance name *string* protocols mld group-count *number*
Tree	group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description List of MLD interfaces

Context network-instance name *string* protocols mld interface interface-name *string*

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the MLD protocol for this interface

Used to administratively enable or disable the MLD protocol on a routed subinterface

Context network-instance name *string* protocols mld interface interface-name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-count *number*

Description	The number of multicast groups which have been learned on this interface
Context	network-instance name *string* protocols mld interface interface-name *string* group-count *number*
Tree	group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description	Apply an import policy. The lenght of the policy name should not exceed 32 charachters
Context	network-instance name *string* protocols mld interface interface-name *string* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-group-sources *number*

Description	MAX number of MLD group/source combinations for this interface, 0 means no limit
Context	network-instance name *string* protocols mld interface interface-name *string* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 4096
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-groups *number*

Description	MAX number of MLD Groups for this interface, 0 means no limit
Context	network-instance name *string* protocols mld interface interface-name *string* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-sources *number*

Description	MAX number of MLD sources per group for this interface, 0 means no limit
Context	network-instance name *string* protocols mld interface interface-name *string* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 512
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description	Enter the membership-groups context List of MLD Membership information
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups
Tree	membership-groups
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description	The time left before multicast group timeout
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* expiry-time *number*
Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-type *keyword*

Description Enter the group-type context

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* group-type *keyword*

Tree group-type

Options

- static

  This group entry was statically configured.

- dynamic

  This group entry was learned by the protocol.

- bgp-smet

  This group entry was learned from a bgp SMET route.

- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-reporter *(ipv4-address | ipv6-address)*

Description The last host address which has sent the report to join the multicast group.

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* last-reporter *(ipv4-address | ipv6-address)*

Tree last-reporter

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mld-compatibility-mode *keyword*

Description Compatibility with older version routers

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* mld-compatibility-mode *keyword*

Tree mld-compatibility-mode

Options

- 1
- 2

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-state *keyword*

Description Traffic forwardeding state on this port

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string* forwarding-state *keyword*

Tree forwarding-state

Options

- forward
- block

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-type *keyword*

Description Enter the source-type context

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string* source-type *keyword*

Tree source-type

Options

- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.
- bgp-smet

  This group entry was learned from a bgp SMET route.
- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description The time elapsed since this entry was created

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Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v1-host-timer *number*

Description The time remaining until the local router will assume that there are no longer any version 1 members.

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* v1-host-timer *number*

Tree v1-host-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the MLD interface. This simply tracks the operational state of the subinterface

Context network-instance name *string* protocols mld interface interface-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory

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- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-version *number*

Description The operational MLD version on this interface

Context network-instance name *string* protocols mld interface interface-name *string* oper-version *number*

Tree oper-version

Range 1 to 2

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

querier

Description Enter the querier context

Context network-instance name *string* protocols mld interface interface-name *string* querier

Tree querier

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description The address of the MLD Querier on the IP subnet to which this interface is attached

Context network-instance name *string* protocols mld interface interface-name *string* querier address *string*

Tree address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description The time remaining before this querier is aged out

Context network-instance name *string* protocols mld interface interface-name *string* querier expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description	The time since this querier was last elected
Context	network-instance name *string* protocols mld interface interface-name *string* querier up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-interval *number*

Description	Interval at which the router sends the mld membership queries
Context	network-instance name *string* protocols mld interface interface-name *string* query-interval *number*
Tree	query-interval
Range	2 to 1024
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-last-member-interval *number*

Description	Interval at which Group-Specific-Query packets are transmitted
Context	network-instance name *string* protocols mld interface interface-name *string* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-response-interval *number*

Description Time to wait to receive a response to the MLD membership query from the host

Context network-instance name *string* protocols mld interface interface-name *string* query-response-interval *number*

Tree query-response-interval

Range 1 to 1023

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-alert-check *boolean*

Description Enable or disable router alert checking for MLD messages received on this interface

Context network-instance name *string* protocols mld interface interface-name *string* router-alert-check *boolean*

Tree router-alert-check

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssm

Description Enter the ssm context

Container to configure Source specific multicast (SSM) options

Context network-instance name *string* protocols mld interface interface-name *string* ssm

Tree ssm

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mappings

Description	Enter the mappings context A list of source specific multicast (SSM) mappings
Context	network-instance name *string* protocols mld interface interface-name *string* ssm mappings
Tree	mappings
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description	A Source Specific Multicast (SSM) mapping This allows MLD v2 hosts to be able to join in SSM environments by translating MLD v1 reports into MLD v2 reports. The request in an MLD v1 join is sent toward the source address found by matching the multicast address.
Context	network-instance name *string* protocols mld interface interface-name *string* ssm mappings group-range start *string* end *string*
Tree	group-range
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *string*

Description	start of the group range
Context	network-instance name *string* protocols mld interface interface-name *string* ssm mappings group-range start *string* end *string*
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *string*

Description end of the group range

Context network-instance name *string* protocols mld interface interface-name *string* ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols mld interface interface-name *string* ssm mappings group-range start *string* end *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

source *string*

Description Multicast source address

Context network-instance name *string* protocols mld interface interface-name *string* ssm mappings group-range start *string* end *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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static-membership-groups

Description Enter the static-membership-groups context

Container to configure static <S,G>s for this interface

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups

Tree static-membership-groups

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description Enter the group-range list instance

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *string*

Description start of the group range

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *string*

Description end of the group range

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Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Multicast source address

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

starg

Description any source address (*,G)

Context network-instance name *string* protocols mld interface interface-name *string* static-membership-groups group-range start *string* end *string* starg

Tree starg

Configurable True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Global MLD statistics

Context network-instance name *string* protocols mld interface interface-name *string* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error

Description Enter the error context

Error message statistics

Context network-instance name *string* protocols mld interface interface-name *string* statistics error

Tree error

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-encoding *number*

Description Badly encoded

Context network-instance name *string* protocols mld interface interface-name *string* statistics error bad-encoding *number*

Tree bad-encoding

Default 0

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-length *number*

Description	Bad length
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error bad-length *number*
Tree	bad-length
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy-drops *number*

Description	Number of times we matched the host IP address or group or source addresses specified in the import policy.
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error import-policy-drops *number*
Tree	import-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-scope *number*

Description	Link-local scope multicast group address
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error local-scope *number*
Tree	local-scope
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

missing-router-alert *number*

Description	Router alert flag is not set
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error missing-router-alert *number*
Tree	missing-router-alert
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-local *number*

Description	Non-local sender source IP address
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error non-local *number*
Tree	non-local
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-of-memory-drops *number*

Description	Number of times a join is dropped because we ran out of memory
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error out-of-memory-drops *number*
Tree	out-of-memory-drops
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reached-maximum-number-group-sources *number*

Description	Number of times a join is dropped because we reached the maximum number group-source combinations.
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error reached-maximum-number-group-sources *number*
Tree	reached-maximum-number-group-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reached-maximum-number-groups *number*

Description	Number of times a join is dropped because we reached the maximum number of groups.
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error reached-maximum-number-groups *number*
Tree	reached-maximum-number-groups
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reached-maximum-number-sources *number*

Description	Number of times a join is dropped because we reached the maximum number of sources per group.
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error reached-maximum-number-sources *number*
Tree	reached-maximum-number-sources

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved-scope *number*

Description	Reserved scope multicast group address
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error reserved-scope *number*
Tree	reserved-scope
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-type *number*

Description	Unknown type
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wrong-version *number*

Description	Wrong version
Context	network-instance name *string* protocols mld interface interface-name *string* statistics error wrong-version *number*
Tree	wrong-version

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-states

Description	Enter the multicast-states context Multicast state count for this network instance
Context	network-instance name *string* protocols mld interface interface-name *string* statistics multicast-states
Tree	multicast-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-group-entries *number*

Description	The number of (S,G)s
Context	network-instance name *string* protocols mld interface interface-name *string* statistics multicast-states source-group-entries *number*
Tree	source-group-entries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-group-entries *number*

Description	The number of (*,G)s
Context	network-instance name *string* protocols mld interface interface-name *string* statistics multicast-states star-group-entries *number*
Tree	star-group-entries

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description	Enter the received context Received message statistics
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drops *number*

Description	Total number of dropped packets
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received drops *number*
Tree	drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received general-queries *number*
Tree	general-queries

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaves *number*

Description	Leaves
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received leaves *number*
Tree	leaves

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols mld interface interface-name *string* statistics received v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description	Enter the transmitted context Transmit message statistics
Context	network-instance name *string* protocols mld interface interface-name *string* statistics transmitted

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Tree	transmitted
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

errors *number*

Description	Transmission Errors
Context	network-instance name *string* protocols mld interface interface-name *string* statistics transmitted errors *number*
Tree	errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics transmitted general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics transmitted group-queries *number*
Tree	group-queries

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols mld interface interface-name *string* statistics transmitted group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *number*

Description	MLD Version
Context	network-instance name *string* protocols mld interface interface-name *string* version *number*
Tree	version
Range	1 to 2
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description	Enter the membership-groups context List of MLD Membership information
Context	network-instance name *string* protocols mld membership-groups

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Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld membership-groups group group *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols mld membership-groups group group *string* source source *string*
Tree	source
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

blocked-interface interface-name *string*

Description Add a list entry for blocked-interface

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string* blocked-interface interface-name *string*

Tree blocked-interface

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string* blocked-interface interface-name *string*

String Length 5 to 27

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-interface interface-name *string*

Description Add a list entry for forwarding-interface

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string* forwarding-interface interface-name *string*

Tree forwarding-interface

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string* forwarding-interface interface-name *string*

String Length 5 to 27

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Used to report operational state of the MLD instance

Context network-instance name *string* protocols mld oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory

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- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-interval *number*

Description Interval at which the router sends the mld membership queries

Context network-instance name *string* protocols mld query-interval *number*

Tree query-interval

Range 2 to 1024

Default 125

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-last-member-interval *number*

Description	Interval at which Group-Specific-Query packets are transmitted
Context	network-instance name *string* protocols mld query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Default	1
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

query-response-interval *number*

Description	Time to wait to receive a response to the MLD membership query from the host
Context	network-instance name *string* protocols mld query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Default	10
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

robust-count *number*

Description	Tune MLD robustness to allow for expected packet loss The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased.
Context	network-instance name *string* protocols mld robust-count *number*

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Tree	robust-count
Range	2 to 10
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssm

Description	Enter the ssm context Container to configure Source specific multicast (SSM) options
Context	network-instance name *string* protocols mld ssm
Tree	ssm
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mappings

Description	Enter the mappings context A list of source specific multicast (SSM) mappings
Context	network-instance name *string* protocols mld ssm mappings
Tree	mappings
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range start *string* end *string*

Description	A Source Specific Multicast (SSM) mapping This allows MLD v2 hosts to be able to join in SSM environments by translating MLD v1 reports into MLD v2 reports. The request in an MLD

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v1 join is sent toward the source address found by matching the multicast address.

Context network-instance name *string* protocols mld ssm mappings group-range start *string* end *string*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *string*

Description start of the group range

Context network-instance name *string* protocols mld ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *string*

Description end of the group range

Context network-instance name *string* protocols mld ssm mappings group-range start *string* end *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols mld ssm mappings group-range start *string* end *string* source source *string*

Tree source

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Min. Elements	1

source *string*

Description	Multicast source address
Context	network-instance name *string* protocols mld ssm mappings group-range start *string* end *string* source source *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols mld statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context
Context	network-instance name *string* protocols mld trace-options
Tree	trace-options
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace

Description Enter the trace context

Tracing parameter flags

Context network-instance name *string* protocols mld trace-options trace

Tree trace

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description Enable tracing interface events.

Context network-instance name *string* protocols mld trace-options trace interface

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all

Description Trace for all interfaces

Context network-instance name *string* protocols mld trace-options trace interface all

Tree all

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Trace for interface with this name

Context network-instance name *string* protocols mld trace-options trace interface name *reference*

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Tree	name
Reference	network-instance name *string* protocols mld interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet

Description	Trace MLD Packet types Only one type can be enabled at a time
Context	network-instance name *string* protocols mld trace-options trace packet
Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description	Enable interface filter for packets
Context	network-instance name *string* protocols mld trace-options trace packet interface
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all

Description	Trace for all interfaces
Context	network-instance name *string* protocols mld trace-options trace packet interface all
Tree	all
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Trace for interface with this name

Context network-instance name *string* protocols mld trace-options trace packet interface name *reference*

Tree name

Reference network-instance name *string* protocols mld interface interface-name *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols mld trace-options trace packet modifier *keyword*

Tree modifier

Default egress-ingress-and-dropped

Options

- dropped

  Enable tracing for the packets which are dropped
- ingress-and-dropped

  Enable tracing for the packets which are sent or received
- egress-ingress-and-dropped

  Enable tracing for the packets which are sent, received or dropped

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *keyword*

Description Enter the type context

Context network-instance name *string* protocols mld trace-options trace packet type *keyword*

Tree type

Options

- all

  Enable tracing of all MLD packets
- query

  Enable tracing of MLD Query packets
- v1-report

  Enable tracing of MLD version 1 Report packets
- v1-done

  Enable tracing of MLD version 1 Done packets
- v2-report

  Enable tracing of MLD version 2 Report packets

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description Enter the version context

Context network-instance name *string* protocols mld version

Tree version

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mld-snooping

Description Enable the mld-snooping context

Context network-instance name *string* protocols mld-snooping

Tree mld-snooping

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

admin-state *keyword*

Description	Administratively enable or disable the MLD instance
Context	network-instance name *string* protocols mld-snooping admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface interface-name *string*

Description	List of MLD interfaces
Context	network-instance name *string* protocols mld-snooping interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols mld-snooping interface interface-name *string*
String Length	5 to 27
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

fast-leave *boolean*

Description	Allow MLD fast leave processing When enabled, the multicast state is removed immediately upon receiving an MLD leave message.
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* fast-leave *boolean*
Tree	fast-leave
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

import-policy *reference*

Description	Apply an import policy. The lenght of the policy name should not exceed 32 charachters.
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-mrouter-port *boolean*

Description	Interface Is a multicast router port
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* is-mrouter-port *boolean*
Tree	is-mrouter-port
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

maximum-number-group-sources *number*

Description	Maximum number of MLD group/source combinations for this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

maximum-number-groups *number*

Description	Maximum number of MLD Groups for this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 4096
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

maximum-number-sources *number*

Description	Maximum number of MLD sources per group for this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 512
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-group-count *number*
Tree	membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context List of MLD Membership information
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string*

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description	The time left before multicast group timeout
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* expiry-time *number*
Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description	Enter the filter-mode context
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* filter-mode *keyword*
Tree	filter-mode
Options	• include In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter • exclude In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-type *keyword*

Description	Enter the group-type context

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Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* group-type *keyword*
Tree	group-type
Options	• static This group entry was statically configured. • dynamic This group entry was learned by the protocol. • bgp-smet This group entry was learned from a bgp SMET route. • bgp-sync This group entry was learned from a bgp JOIN SYNC route.
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mld-compatibility-mode *keyword*

Description	Compatibility with older version routers
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* mld-compatibility-mode *keyword*
Tree	mld-compatibility-mode
Options	• 1 • 2
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string*
Tree	source
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

forwarding-state *keyword*

Description Traffic forwardeding state on this port

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string* forwarding-state *keyword*

Tree forwarding-state

Options

- forward
- block

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-type *keyword*

Description Enter the source-type context

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string* source-type *keyword*

Tree source-type

Options

- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.
- bgp-smet

  This group entry was learned from a bgp SMET route.
- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-host-timer *number*

Description	The time remaining until the local router will assume that there are no longer any version 1 members
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* v1-host-timer *number*
Tree	v1-host-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mrouter-port *boolean*

Description	Operate port as a multicast router port
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* mrouter-port *boolean*
Tree	mrouter-port
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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query-interval *number*

Description	Interval at which the router sends the MLD membership queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* query-interval *number*
Tree	query-interval
Range	2 to 1024
Default	125
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-last-member-interval *number*

Description	Interval at which Group-Specific-Query packets are transmitted When used along with EVPN multi-homing, the result of this value multipled by the interface robust-count must be a value equal to or less than 25.5 seconds. This is due to the fact that the maximum response time field in the EVPN Multicast Leave Synch route has a limit of 255 units of 1/10 second, and this field encodes the result of [(query-last-member-interval* 10) * robust-count]. If the result of that operation is greater than 255, the maximum response time in the EVPN Multicast Leave Synch route is still 255.
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 5
Default	1
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-response-interval *number*

Description	Time to wait to receive a response to the MLD membership query from the host
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* query-response-interval *number*

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Tree	query-response-interval
Range	1 to 1023
Default	10
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	Tune MLD robustness to allow for expected packet loss The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased. When used along with EVPN multi-homing, the result of this value multipled by the interface query-last-member-interval must be a value equal to or less than 25.5 seconds. This is due to the fact that the maximum response time field in the EVPN Multicast Leave Synch route has a limit of 255 units of 1/10 second, and this field encodes the result of [(query-last-member-interval* 10) * robust-count]. If the result of that operation is greater than 255, the maximum response time in the EVPN Multicast Leave Synch route is still 255.
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* robust-count *number*
Tree	robust-count
Range	2 to 10
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

router-alert-check *boolean*

Description	Enable or disable router alert checking for MLD messages received on this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* router-alert-check *boolean*
Tree	router-alert-check
Default	true

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

send-queries *boolean*

Description	Generate MLD general queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* send-queries *boolean*
Tree	send-queries
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

static-membership-groups

Description	Enter the static-membership-groups context Container to configure static <S,G>s for this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups
Tree	static-membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Enter the group list instance
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group *string*

Description group address.

Context network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Multicast source address list

Context network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Multicast source address.

Context network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

starg

Description any source address (*,G)

Context network-instance name *string* protocols mld-snooping interface interface-name *string* static-membership-groups group group *string* starg

Tree starg

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description	Enter the statistics context MLD sub-interface statistics
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

error

Description	Enter the error context Error message statistics
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error
Tree	error
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bad-encoding *number*

Description	Badly encoded packets
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error bad-encoding *number*
Tree	bad-encoding
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bad-length *number*

Description	Bad length
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error bad-length *number*
Tree	bad-length
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bad-mld-checksum *number*

Description	Number of times a packet is discarded because of a bad MLD header checksum
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error bad-mld-checksum *number*
Tree	bad-mld-checksum
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-bgp-join-sync *number*

Description	Bgp join sync routes
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error discarded-bgp-join-sync *number*
Tree	discarded-bgp-join-sync
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error discarded-bgp-leave-sync *number*
Tree	discarded-bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

import-policy-drops *number*

Description	Number of times the host IP address or group or source IP addresses specified in the import policy are matched
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error import-policy-drops *number*
Tree	import-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-scope *number*

Description	Link-local scope multicast group address
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error local-scope *number*
Tree	local-scope
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

missing-router-alert *number*

Description	Router alert flag is not set
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error missing-router-alert *number*
Tree	missing-router-alert
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

out-of-memory-discarded-packets *number*

Description	Number of times a join is discarded because the router ran out of memory
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error out-of-memory-discarded-packets *number*
Tree	out-of-memory-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

reached-maximum-number-group-sources *number*

Description	Number of times a join is discarded because the maximum number of group-source combinations is reached
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error reached-maximum-number-group-sources *number*
Tree	reached-maximum-number-group-sources
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

reached-maximum-number-groups *number*

Description	Number of times a join is discarded because the maximum number of groups is reached
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error reached-maximum-number-groups *number*
Tree	reached-maximum-number-groups
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

reached-maximum-number-sources *number*

Description	Number of times a join is discarded because the maximum number of sources per group is reached
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error reached-maximum-number-sources *number*
Tree	reached-maximum-number-sources
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

send-query-configured-discarded-packets *number*

Description	Number of times a query is discarded because send-queries is configured in the sub-interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error send-query-configured-discarded-packets *number*
Tree	send-query-configured-discarded-packets
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

unknown-type *number*

Description	Unknown type
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

wrong-version *number*

Description	Wrong version
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error wrong-version *number*
Tree	wrong-version
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

zero-source-ip-address *number*

Description	Number of times a packet is discarded because it has a zero source IP address
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics error zero-source-ip-address *number*
Tree	zero-source-ip-address
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

forwarded

Description	Enter the forwarded context Forward message statistics
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded
Tree	forwarded
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

error-packets *number*

Description	Forwarding Errors
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded error-packets *number*
Tree	error-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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unknown-type *number*

Description	Unknown MLD types
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded unknown-type *number*
Tree	unknown-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics forwarded v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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multicast-states

Description	Enter the multicast-states context Multicast state count for this network instance
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics multicast-states
Tree	multicast-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-group-entries *number*

Description	The number of (S,G)s
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics multicast-states source-group-entries *number*
Tree	source-group-entries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

star-group-entries *number*

Description	The number of (*,G)s
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics multicast-states star-group-entries *number*
Tree	star-group-entries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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received

Description	Enter the received context Received message statistics
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-join-sync *number*

Description	Bgp join sync routes
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received bgp-join-sync *number*
Tree	bgp-join-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received bgp-leave-sync *number*
Tree	bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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discarded-packets *number*

Description	Total number of discarded MLD packets
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received discarded-packets *number*
Tree	discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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v2-reports *number*

Description V2 Reports

Context network-instance name *string* protocols mld-snooping interface interface-name *string* statistics received v2-reports *number*

Tree v2-reports

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

transmitted

Description Enter the transmitted context

Transmit message statistics

Context network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted

Tree transmitted

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

bgp-join-sync *number*

Description Bgp join sync routes

Context network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted bgp-join-sync *number*

Tree bgp-join-sync

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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bgp-leave-sync *number*

Description	Bgp leave sync routes
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted bgp-leave-sync *number*
Tree	bgp-leave-sync
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

error-packets *number*

Description	Transmission error MLD packets
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted error-packets *number*
Tree	error-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-queries *number*

Description	General Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted general-queries *number*
Tree	general-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-queries *number*

Description	Group Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted group-queries *number*
Tree	group-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group-source-queries *number*

Description	Group and Source Specific Queries
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted group-source-queries *number*
Tree	group-source-queries
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-messages *number*

Description	Leave messages
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted leave-messages *number*
Tree	leave-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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v1-reports *number*

Description	V1 Reports
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted v1-reports *number*
Tree	v1-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-reports *number*

Description	V2 Reports
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* statistics transmitted v2-reports *number*
Tree	v2-reports
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

version *number*

Description	MLD Version
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* version *number*
Tree	version
Range	1 to 2
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols mld-snooping membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string* source source *string*
Tree	source
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description	Source address of multicast
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string* source source *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

multicast-routers address *string*

Description	Enter the multicast-router list instance
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string*
Tree	multicast-routers
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

address *string*

Description	The source IP address used by queries sent out by this multicast router
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description	The time remaining before this multicast router is aged out
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* expiry-time *number*

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Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface *string*

Description	Interface behind which this multicast router is located
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* interface *string*
Tree	interface
String Length	5 to 27
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mld-v2-states

Description	Enter the mld-v2-states context
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* mld-v2-states
Tree	mld-v2-states
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-query-interval *number*

Description	The General Query Interval used by this multicast router
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* mld-v2-states general-query-interval *number*
Tree	general-query-interval
Units	seconds
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-response-interval *number*

Description	The General Query Response interval used by this multicast router
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* mld-v2-states general-response-interval *number*
Tree	general-response-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	The Robust Count value used by this multicast router
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* mld-v2-states robust-count *number*
Tree	robust-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time since this multicast router has been known in this service
Context	network-instance name *string* protocols mld-snooping multicast-routers address *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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version *number*

Description The version of the protocol that is sent by this multicast router

Context network-instance name *string* protocols mld-snooping multicast-routers address *string* version *number*

Tree version

Range 1 to 2

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-state *keyword*

Description Used to report operational state of the MLD instance

Context network-instance name *string* protocols mld-snooping oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power

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- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-evpn-membership-group-count *number*

Description The number of multicast groups in proxy-evpn-membership-groups

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-group-count *number*

Tree proxy-evpn-membership-group-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-evpn-membership-groups

Description Enter the proxy-evpn-membership-groups context

EVPN Proxy Database created for the network-instance

The content of this table is used by the router to proxy the reports towards the remote PEs via BGP EVPN SMET (Selective Multicast Ethernet Tag) routes.

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups

Tree proxy-evpn-membership-groups

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string*

Tree group

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-support *boolean*

Description	MLD Version 1 is supported
Context	network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* v1-support *boolean*
Tree	v1-support
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v2-support *boolean*

Description	MLD Version 2 is supported
Context	network-instance name *string* protocols mld-snooping proxy-evpn-membership-groups group group *string* v2-support *boolean*
Tree	v2-support
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols mld-snooping proxy-membership-group-count *number*

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Tree	proxy-membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

proxy-membership-groups

Description	Enter the proxy-membership-groups context Proxy Database created for the network-instance The content of this table is used by the router to proxy the reports towards the Querier, when the Querier is attached to a sub-interface.
Context	network-instance name *string* protocols mld-snooping proxy-membership-groups
Tree	proxy-membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address.
Context	network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string*
Configurable	False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string* source source *string*

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string* source source *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols mld-snooping proxy-membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

querier

Description	Enter the querier context
Context	network-instance name *string* protocols mld-snooping querier
Tree	querier
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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address *string*

Description	The source IP address used by queries sent out by this multicast router
Context	network-instance name *string* protocols mld-snooping querier address *string*
Tree	address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description	The time remaining before this multicast router is aged out
Context	network-instance name *string* protocols mld-snooping querier expiry-time *number*
Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface *string*

Description	Interface behind which this multicast router is located
Context	network-instance name *string* protocols mld-snooping querier interface *string*
Tree	interface
String Length	5 to 27
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mld-v2-states

Description	Enter the mld-v2-states context
Context	network-instance name *string* protocols mld-snooping querier mld-v2-states
Tree	mld-v2-states

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-query-interval *number*

Description	The General Query Interval used by this multicast router
Context	network-instance name *string* protocols mld-snooping querier mld-v2-states general-query-interval *number*
Tree	general-query-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

general-response-interval *number*

Description	The General Query Response interval used by this multicast router
Context	network-instance name *string* protocols mld-snooping querier mld-v2-states general-response-interval *number*
Tree	general-response-interval
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	The Robust Count value used by this multicast router
Context	network-instance name *string* protocols mld-snooping querier mld-v2-states robust-count *number*
Tree	robust-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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up-time *string*

Description	The time since this multicast router has been known in this service
Context	network-instance name *string* protocols mld-snooping querier up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

version *number*

Description	The version of the protocol that is sent by this multicast router
Context	network-instance name *string* protocols mld-snooping querier version *number*
Tree	version
Range	1 to 2
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-interval *number*

Description	Interval at which the router sends the MLD membership queries
Context	network-instance name *string* protocols mld-snooping query-interval *number*
Tree	query-interval
Range	1 to 65535
Default	125
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

query-source-address *string*

Description	Source IP address used when generating MLD queries

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Context	network-instance name *string* protocols mld-snooping query-source-address *string*
Tree	query-source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

report-source-address *string*

Description	Source IP address used when generating MLD reports
Context	network-instance name *string* protocols mld-snooping report-source-address *string*
Tree	report-source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

robust-count *number*

Description	Configures the MLD robustness to allow for the expected MLD packet loss The robust-count variable allows tuning for the expected packet loss on a subnet. If a subnet anticipates losses, the robust-count variable can be increased.
Context	network-instance name *string* protocols mld-snooping robust-count *number*
Tree	robust-count
Range	1 to 255
Default	2
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols mld-snooping statistics
Tree	statistics

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

trace-options

Description	Enter the trace-options context
Context	network-instance name *string* protocols mld-snooping trace-options
Tree	trace-options
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

trace

Description	Enter the trace context Tracing parameter flags
Context	network-instance name *string* protocols mld-snooping trace-options trace
Tree	trace
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

packet

Description	Trace MLD Packet types
Context	network-instance name *string* protocols mld-snooping trace-options trace packet
Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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interface interface-name *string*

Description List of interfaces to trace

Context network-instance name *string* protocols mld-snooping trace-options trace packet interface interface-name *string*

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

Max. Elements 8

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld-snooping trace-options trace packet interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols mld-snooping trace-options trace packet modifier *keyword*

Tree modifier

Options

- dropped

  Enable tracing for the packets which are dropped
- ingress-and-dropped

  Enable tracing for the packets which are sent or received
- egress-ingress-and-dropped

  Enable tracing for the packets which are sent, received or dropped

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-mac source-mac *string*

Description	List of source mac addresses to trace
Context	network-instance name *string* protocols mld-snooping trace-options trace packet source-mac source-mac *string*
Tree	source-mac
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B
Max. Elements	8

source-mac *string*

Description	Enter the source-mac context
Context	network-instance name *string* protocols mld-snooping trace-options trace packet source-mac source-mac *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

transmitted-bgp-smet-routes *number*

Description	Transmitted BGP SMET routes
Context	network-instance name *string* protocols mld-snooping transmitted-bgp-smet-routes *number*
Tree	transmitted-bgp-smet-routes
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*

Description Enter the vxlan-destination list instance

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*

Tree vxlan-destination

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vtep *(ipv4-address | ipv6-address)*

Description The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

vni *number*

Description VXLAN Network Identifier of the destination.

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number*

Range 1 to 16777215

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

index *number*

Description the next-hop-group-id (system allocated) for resolving the VXLAN termination endpoint

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* index *number*

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Tree	index
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

is-evpn-proxy *boolean*

Description	vxlan-interface supports evpn-proxy
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-evpn-proxy *boolean*
Tree	is-evpn-proxy
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

is-mrouter-port *boolean*

Description	vxlan-interface is a multicast router port
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-mrouter-port *boolean*
Tree	is-mrouter-port
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

is-sbd *boolean*

Description	Enter the is-sbd context
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* is-sbd *boolean*
Tree	is-sbd
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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membership-group-count *number*

Description	The number of multicast groups which have been learned
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-group-count *number*
Tree	membership-group-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context List of MLD Membership information
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups
Tree	membership-groups
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address

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Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

filter-mode *keyword*

Description Enter the filter-mode context

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* filter-mode *keyword*

Tree filter-mode

Options

- include

  In include mode, reception of packets sent to the specified multicast address is requested only from those IP source addresses listed in the source-list parameter

- exclude

  In exclude mode, reception of packets sent to the given multicast address is requested from all IP source addresses except those listed in the source-list parameter.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group-type *keyword*

Description Enter the group-type context

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* group-type *keyword*

Tree group-type

Options

- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.
- bgp-smet

  This group entry was learned from a bgp SMET route.
- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

mld-compatibility-mode *keyword*

Description Compatibility with older version routers

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* mld-compatibility-mode *keyword*

Tree mld-compatibility-mode

Options

- 1
- 2

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

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Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string*

Tree source

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

expiry-time *number*

Description The time left before multicast group timeout

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* expiry-time *number*

Tree expiry-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

forwarding-state *keyword*

Description Traffic forwardeding state on this port

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* forwarding-state *keyword*

Tree forwarding-state

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Options
- forward
- block

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source-type *keyword*

Description Enter the source-type context

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* source-type *keyword*

Tree source-type

Options
- static

  This group entry was statically configured.
- dynamic

  This group entry was learned by the protocol.
- bgp-smet

  This group entry was learned from a bgp SMET route.
- bgp-sync

  This group entry was learned from a bgp JOIN SYNC route.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description The time elapsed since this entry was created

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* source source *string* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

up-time *string*

Description	The time elapsed since this entry was created
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

v1-host-timer *number*

Description	The time remaining until the local router will assume that there are no longer any version 1 members
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* membership-groups group group *string* v1-host-timer *number*
Tree	v1-host-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-down-reason *keyword*

Description	The reason for the vxlan-destination being down in the network-instance
Context	network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• sbd-vxlan-destination-present • non-sbd-vxlan-destination-present

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Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

oper-state *keyword*

Description Operational state of the vxlan-destination

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

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- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

vxlan-interface statistics

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

discarded-smet *number*

Description Total number of discarded smet routes

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics discarded-smet *number*

Tree discarded-smet

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

received-smet *number*

Description Total number of received smet routes

Context network-instance name *string* protocols mld-snooping vxlan-destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics received-smet *number*

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Tree	received-smet
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

msdp

Description	Enable MSDP context
Context	network-instance name *string* protocols msdp
Tree	msdp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit *number*

Description	Maximum source-active messages accepted by MSDP
Context	network-instance name *string* protocols msdp active-source-limit *number*
Tree	active-source-limit
Range	0 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit-exceeded *number*

Description	The number of time the global active source limit has been exceeded
Context	network-instance name *string* protocols msdp active-source-limit-exceeded *number*
Tree	active-source-limit-exceeded
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable MSDP
Context	network-instance name *string* protocols msdp admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-encapsulation *boolean*

Description	Enable encapsulation of multicast data used by MSDP
Context	network-instance name *string* protocols msdp data-encapsulation *boolean*
Tree	data-encapsulation
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group name *string*

Description	Enter the group list instance
Context	network-instance name *string* protocols msdp group name *string*
Tree	group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description	MSDP group name
Context	network-instance name *string* protocols msdp group name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit *number*

Description	Maximum source-active messages accepted by MSDP
Context	network-instance name *string* protocols msdp group name *string* active-source-limit *number*
Tree	active-source-limit
Range	0 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit-exceeded *number*

Description	The number of source active messages received from this group that exceeded the established maximum number
Context	network-instance name *string* protocols msdp group name *string* active-source-limit-exceeded *number*
Tree	active-source-limit-exceeded
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of MSDP

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Context	network-instance name *string* protocols msdp group name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local end IP address of the MSDP group
Context	network-instance name *string* protocols msdp group name *string* local-address *string*
Tree	local-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description	Topology of the group of peers
Context	network-instance name *string* protocols msdp group name *string* mode *keyword*
Tree	mode
Default	standard
Options	• standard • mesh-group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer ip-address *string*

Description	Enter the peer list instance
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	IP address of the remote MSDP router for peering
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-accepted *number*

Description	The number of source-active cache accepted from the peer
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* active-source-accepted *number*
Tree	active-source-accepted
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit *number*

Description	Maximum source-active messages accepted by MSDP
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* active-source-limit *number*
Tree	active-source-limit

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Range	0 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-received *number*

Description	The number of source-active cache received by the peer
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* active-source-received *number*
Tree	active-source-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of MSDP
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-retry *number*

Description	The number of peer connection retry attempts
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* connection-retry *number*
Tree	connection-retry

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-peer *boolean*

Description	Set the peer as a default MSDP peer
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* default-peer *boolean*
Tree	default-peer
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-active-source-limit *string*

Description	The time that the last active source limit was triggered
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* last-active-source-limit *string*
Tree	last-active-source-limit
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-peer-state-change *string*

Description	The time at which the most recent peer-state change occurred
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* last-peer-state-change *string*
Tree	last-peer-state-change
String Length	20 to 32
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local end IP address of the MSDP group
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* local-address *string*
Tree	local-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-local-address *string*

Description	The operational value of the local address
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* operational-local-address *string*
Tree	operational-local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-state *keyword*

Description	The status of connection
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* peer-state *keyword*
Tree	peer-state
Options	• listen • established • inactive • disabled • connecting
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-message-rate

Description	Enter the receive-message-rate context
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* receive-message-rate
Tree	receive-message-rate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate *number*

Description	Maximum number of MSDP messages read from TCP session
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* receive-message-rate rate *number*
Tree	rate
Range	10 to 10000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description	Processed MSDP message limit to activate rate limiting
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* receive-message-rate threshold *number*
Tree	threshold
Range	1 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time *number*

Description	Time interval to rate limit MSDP messages
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* receive-message-rate time *number*
Tree	time
Range	1 to 600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-timer *number*

Description	The number of seconds to wait before another message is sent to a peer
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* state-timer *number*
Tree	state-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context MSDP Peer statistics
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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err-msg-recvd *number*

Description	The number of error messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics err-msg-recvd *number*
Tree	err-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive-msg-recvd *number*

Description	The number of keepalive messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics keepalive-msg-recvd *number*
Tree	keepalive-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive-msg-sent *number*

Description	The number of keepalive messages sent.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics keepalive-msg-sent *number*
Tree	keepalive-msg-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-closes *number*

Description	The number of times the remote peer closed.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics remote-closes *number*
Tree	remote-closes
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved-msg-recvd *number*

Description	The number of reserved messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics reserved-msg-recvd *number*
Tree	reserved-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-failures *number*

Description	The number of reverse path forwarding (RPF) failures.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics rpf-failures *number*
Tree	rpf-failures
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sa-lim-excd *number*

Description	The number of SA limit exceeded.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics sa-lim-excd *number*
Tree	sa-lim-excd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-msgs-recvd *number*

Description	The number of source-active messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics sa-msgs-recvd *number*
Tree	sa-msgs-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-msgs-sent *number*

Description	The number of source-active messages sent.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics sa-msgs-sent *number*
Tree	sa-msgs-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sa-req-msg-recvd *number*

Description	The number of source-active request messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics sa-req-msg-recvd *number*
Tree	sa-req-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-res-msg-recvd *number*

Description	The number of source-active response messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics sa-res-msg-recvd *number*
Tree	sa-res-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-msg-recvd *number*

Description	The number of unknown messages received.
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* statistics unknown-msg-recvd *number*
Tree	unknown-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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timeout *number*

Description	The number of seconds to wait for a response from the peer before declaring the peer unavailable
Context	network-instance name *string* protocols msdp group name *string* peer ip-address *string* timeout *number*
Tree	timeout
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-message-rate

Description	Enter the receive-message-rate context
Context	network-instance name *string* protocols msdp group name *string* receive-message-rate
Tree	receive-message-rate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate *number*

Description	Maximum number of MSDP messages read from TCP session
Context	network-instance name *string* protocols msdp group name *string* receive-message-rate rate *number*
Tree	rate
Range	10 to 10000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description	Processed MSDP message limit to activate rate limiting

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Context	network-instance name *string* protocols msdp group name *string* receive-message-rate threshold *number*
Tree	threshold
Range	1 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time *number*

Description	Time interval to rate limit MSDP messages
Context	network-instance name *string* protocols msdp group name *string* receive-message-rate time *number*
Tree	time
Range	1 to 600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-time-up *string*

Description	The last time the protocol was enabled
Context	network-instance name *string* protocols msdp last-time-up *string*
Tree	last-time-up
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local end IP address of the MSDP group
Context	network-instance name *string* protocols msdp local-address *string*
Tree	local-address

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer ip-address *string*

Description	Enter the peer list instance
Context	network-instance name *string* protocols msdp peer ip-address *string*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description	IP address of the remote MSDP router for peering
Context	network-instance name *string* protocols msdp peer ip-address *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-accepted *number*

Description	The number of source-active cache accepted from the peer
Context	network-instance name *string* protocols msdp peer ip-address *string* active-source-accepted *number*
Tree	active-source-accepted
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit *number*

Description	Maximum source-active messages accepted by MSDP

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Context	network-instance name *string* protocols msdp peer ip-address *string* active-source-limit *number*
Tree	active-source-limit
Range	0 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-received *number*

Description	The number of source-active cache received by the peer
Context	network-instance name *string* protocols msdp peer ip-address *string* active-source-received *number*
Tree	active-source-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of MSDP
Context	network-instance name *string* protocols msdp peer ip-address *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-retry *number*

Description	The number of peer connection retry attempts

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Context	network-instance name *string* protocols msdp peer ip-address *string* connection-retry *number*
Tree	connection-retry
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-peer *boolean*

Description	Set the peer as a default MSDP peer
Context	network-instance name *string* protocols msdp peer ip-address *string* default-peer *boolean*
Tree	default-peer
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-active-source-limit *string*

Description	The time that the last active source limit was triggered
Context	network-instance name *string* protocols msdp peer ip-address *string* last-active-source-limit *string*
Tree	last-active-source-limit
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-peer-state-change *string*

Description	The time at which the most recent peer-state change occurred
Context	network-instance name *string* protocols msdp peer ip-address *string* last-peer-state-change *string*
Tree	last-peer-state-change

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description	Local end IP address of the MSDP group
Context	network-instance name *string* protocols msdp peer ip-address *string* local-address *string*
Tree	local-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-local-address *string*

Description	The operational value of the local address
Context	network-instance name *string* protocols msdp peer ip-address *string* operational-local-address *string*
Tree	operational-local-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-state *keyword*

Description	The status of connection
Context	network-instance name *string* protocols msdp peer ip-address *string* peer-state *keyword*
Tree	peer-state
Options	• listen • established • inactive • disabled

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- connecting

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-message-rate

Description Enter the receive-message-rate context

Context network-instance name *string* protocols msdp peer ip-address *string* receive-message-rate

Tree receive-message-rate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate *number*

Description Maximum number of MSDP messages read from TCP session

Context network-instance name *string* protocols msdp peer ip-address *string* receive-message-rate rate *number*

Tree rate

Range 10 to 10000

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description Processed MSDP message limit to activate rate limiting

Context network-instance name *string* protocols msdp peer ip-address *string* receive-message-rate threshold *number*

Tree threshold

Range 1 to 1000000

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time *number*

Description	Time interval to rate limit MSDP messages
Context	network-instance name *string* protocols msdp peer ip-address *string* receive-message-rate time *number*
Tree	time
Range	1 to 600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-timer *number*

Description	The number of seconds to wait before another message is sent to a peer
Context	network-instance name *string* protocols msdp peer ip-address *string* state-timer *number*
Tree	state-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context MSDP Peer statistics
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics
Tree	statistics
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

err-msg-recvd *number*

Description	The number of error messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics err-msg-recvd *number*
Tree	err-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive-msg-recvd *number*

Description	The number of keepalive messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics keepalive-msg-recvd *number*
Tree	keepalive-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive-msg-sent *number*

Description	The number of keepalive messages sent.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics keepalive-msg-sent *number*
Tree	keepalive-msg-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-closes *number*

Description	The number of times the remote peer closed.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics remote-closes *number*
Tree	remote-closes
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved-msg-recvd *number*

Description	The number of reserved messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics reserved-msg-recvd *number*
Tree	reserved-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-failures *number*

Description	The number of reverse path forwarding (RPF) failures.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics rpf-failures *number*
Tree	rpf-failures
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sa-lim-excd *number*

Description	The number of SA limit exceeded.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics sa-lim-excd *number*
Tree	sa-lim-excd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-msgs-recvd *number*

Description	The number of source-active messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics sa-msgs-recvd *number*
Tree	sa-msgs-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-msgs-sent *number*

Description	The number of source-active messages sent.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics sa-msgs-sent *number*
Tree	sa-msgs-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sa-req-msg-recvd *number*

Description	The number of source-active request messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics sa-req-msg-recvd *number*
Tree	sa-req-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-res-msg-recvd *number*

Description	The number of source-active response messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics sa-res-msg-recvd *number*
Tree	sa-res-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-msg-recvd *number*

Description	The number of unknown messages received.
Context	network-instance name *string* protocols msdp peer ip-address *string* statistics unknown-msg-recvd *number*
Tree	unknown-msg-recvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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timeout *number*

Description	The number of seconds to wait for a response from the peer before declaring the peer unavailable
Context	network-instance name *string* protocols msdp peer ip-address *string* timeout *number*
Tree	timeout
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-count *number*

Description	The number of configured peers
Context	network-instance name *string* protocols msdp peer-count *number*
Tree	peer-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peers-established *number*

Description	The number of peers in established state
Context	network-instance name *string* protocols msdp peers-established *number*
Tree	peers-established
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-message-rate

Description	Enter the receive-message-rate context
Context	network-instance name *string* protocols msdp receive-message-rate
Tree	receive-message-rate

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate *number*

Description	Maximum number of MSDP messages read from TCP session
Context	network-instance name *string* protocols msdp receive-message-rate rate *number*
Tree	rate
Range	10 to 10000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description	Processed MSDP message limit to activate rate limiting
Context	network-instance name *string* protocols msdp receive-message-rate threshold *number*
Tree	threshold
Range	1 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time *number*

Description	Time interval to rate limit MSDP messages
Context	network-instance name *string* protocols msdp receive-message-rate time *number*
Tree	time
Range	1 to 600
Units	seconds
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source ip-prefix *string*

Description	Enter the source list instance
Context	network-instance name *string* protocols msdp source ip-prefix *string*
Tree	source
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *string*

Description	Source IP address for accepted source-active messages
Context	network-instance name *string* protocols msdp source ip-prefix *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-messages-exceed-max *number*

Description	The number of source active messages received from the source that exceeded the established maximum number
Context	network-instance name *string* protocols msdp source ip-prefix *string* active-messages-exceed-max *number*
Tree	active-messages-exceed-max
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-source-limit *number*

Description	Number of source-active messages accepted by MSDP

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Context	network-instance name *string* protocols msdp source ip-prefix *string* active-source-limit *number*
Tree	active-source-limit
Range	0 to 1000000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discovery-method *keyword*

Description	The discovery method for this multicast source
Context	network-instance name *string* protocols msdp source ip-prefix *string* discovery-method *keyword*
Tree	discovery-method
Options	• dynamic • configured
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-exceeded-event-time *number*

Description	The time the last exceed event was triggered
Context	network-instance name *string* protocols msdp source ip-prefix *string* last-exceeded-event-time *number*
Tree	last-exceeded-event-time
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-active

Description	Enter the source-active context MSDP Source Active advertisements currently in the MSDP speaker's cache

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Context	network-instance name *string* protocols msdp source-active
Tree	source-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string* source *string* origin-rendez-vous-point *string*

Description	Enter the group list instance
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string*
Tree	group
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	The group address of the source active
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	The source address of the source active
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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origin-rendez-vous-point *string*

Description	The origin rendezvous point address of the source active
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *string*

Description	The time remaining before this will expire from the source active cache
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string* expiry-time *string*
Tree	expiry-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-learnt-from *string*

Description	The peer from which the source active was last accepted
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string* peer-learnt-from *string*
Tree	peer-learnt-from
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reverse-path-forwarding-peer *string*

Description	The peer from which an source active message corresponding to this cache would be accepted

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Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string* reverse-path-forwarding-peer *string*
Tree	reverse-path-forwarding-peer
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description	The time since this was first placed in the source active cache
Context	network-instance name *string* protocols msdp source-active group group *string* source *string* origin-rendez-vous-point *string* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-active-cache-lifetime *number*

Description	Timeout interval for SA entries in the cache
Context	network-instance name *string* protocols msdp source-active-cache-lifetime *number*
Tree	source-active-cache-lifetime
Range	90 to 600
Default	90
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-active-messages-count *number*

Description	The number of source active configured in cache

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Context	network-instance name *string* protocols msdp source-active-messages-count *number*
Tree	source-active-messages-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-active-rejected

Description	Enter the source-active-rejected context MSDP Source Active advertisements rejected from the MSDP speaker's cache
Context	network-instance name *string* protocols msdp source-active-rejected
Tree	source-active-rejected
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*

Description	Enter the group-name list instance
Context	network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*
Tree	group-name
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-name *string*

Description	The peer group name of the source active that is rejected
Context	network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*

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String Length	0 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	The group address of the source active that is rejected
Context	network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	The source address of the source active that is rejected
Context	network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-rendez-vous-point *string*

Description	The origin rendezvous point address of the source active that is rejected
Context	network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer *string*

Description The peer from which this rejected source active was last received

Context network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failure-reason *keyword*

Description The reason why this source active is rejected

Context network-instance name *string* protocols msdp source-active-rejected group-name group-name *string* group *string* source *string* origin-rendez-vous-point *string* peer *string* failure-reason *keyword*

Tree failure-reason

Options

- import-policy-failure
- export-policy-failure
- reverse-path-forwarding-failure
- active-source-limit-exceeded
- source-active-source-limit-exceeded
- peer-active-source-limit-exceeded
- group-active-source-limit-exceeded
- group-peer-active-source-limit-exceeded

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols msdp statistics

Tree statistics

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description	Enter the trace-options context
Context	network-instance name *string* protocols msdp trace-options
Tree	trace-options
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace

Description	Enter the trace context Tracing parameter flags
Context	network-instance name *string* protocols msdp trace-options trace
Tree	trace
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

events

Description	Enable the tracing of MSDP events
Context	network-instance name *string* protocols msdp trace-options trace events
Tree	events
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-event-types

Description	Enable tracing for all events

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Context	network-instance name *string* protocols msdp trace-options trace events all-event-types
Tree	all-event-types
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

event-types

Description	Enter the event-types context Enable tracing for selected event types only
Context	network-instance name *string* protocols msdp trace-options trace events event-types
Tree	event-types
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flood

Description	Enable tracing for flood events
Context	network-instance name *string* protocols msdp trace-options trace events event-types flood
Tree	flood
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node

Description	Enable tracing for node events
Context	network-instance name *string* protocols msdp trace-options trace events event-types node
Tree	node
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer

Description	Enable tracing for peer events
Context	network-instance name *string* protocols msdp trace-options trace events event-types peer
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-group

Description	Enable tracing for peer-group events
Context	network-instance name *string* protocols msdp trace-options trace events event-types peer-group
Tree	peer-group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pim

Description	Enable tracing for pim events
Context	network-instance name *string* protocols msdp trace-options trace events event-types pim
Tree	pim
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-address *string*

Description The group address for which to trace events

Context network-instance name *string* protocols msdp trace-options trace events event-types pim group-address *string*

Tree group-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rp

Description Enable tracing for rp events

Context network-instance name *string* protocols msdp trace-options trace events event-types rp

Tree rp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rp-address *string*

Description The rp address for which to trace events

Context network-instance name *string* protocols msdp trace-options trace events event-types rp rp-address *string*

Tree rp-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-reject

Description Enable tracing for sa-reject events

Context network-instance name *string* protocols msdp trace-options trace events event-types sa-reject

Tree sa-reject

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-active

Description	Enable tracing for source-active events
Context	network-instance name *string* protocols msdp trace-options trace events event-types source-active
Tree	source-active
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *string*

Description	The group address for which to trace events
Context	network-instance name *string* protocols msdp trace-options trace events event-types source-active group-address *string*
Tree	group-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rp-address *string*

Description	The rp address for which to trace events
Context	network-instance name *string* protocols msdp trace-options trace events event-types source-active rp-address *string*
Tree	rp-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-address *string*

Description The source address for which to trace events

Context network-instance name *string* protocols msdp trace-options trace events event-types source-active source-address *string*

Tree source-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet

Description Enable the tracing of MSDP packets

Context network-instance name *string* protocols msdp trace-options trace packet

Tree packet

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-packet-types

Description Enable tracing for all packet types

Context network-instance name *string* protocols msdp trace-options trace packet all-packet-types

Tree all-packet-types

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-types

Description Enter the packet-types context

Enable tracing for selected packet types only

Context network-instance name *string* protocols msdp trace-options trace packet packet-types

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Tree	packet-types
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer

Description	Enable tracing for peer packets
Context	network-instance name *string* protocols msdp trace-options trace packet packet-types peer
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-address *string*

Description	The peer-address for which to trace peer packets
Context	network-instance name *string* protocols msdp trace-options trace packet packet-types peer peer-address *string*
Tree	peer-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx

Description	Enable tracing for rx packets
Context	network-instance name *string* protocols msdp trace-options trace packet packet-types rx
Tree	rx
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tx

Description	Enable tracing for tx packets
Context	network-instance name *string* protocols msdp trace-options trace packet packet-types tx
Tree	tx
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ospf

Description	Top-level configuration and operational state for Open Shortest Path First (OSPF)
Context	network-instance name *string* protocols ospf
Tree	ospf
Configurable	True
Platforms	Supported on all platforms

instance name *string*

Description	List of OSPF protocol instances associated with this network-instance.
Context	network-instance name *string* protocols ospf instance name *string*
Tree	instance
Configurable	True
Platforms	Supported on all platforms
Max. Elements	3

name *string*

Description	The name of the OSPF instance
Context	network-instance name *string* protocols ospf instance name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

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address-family *identityref*

Description The address family that this instance supports. Only valid for OSPFv3.

Context network-instance name *string* protocols ospf instance name *string* address-family *identityref*

Tree address-family

Options

- ipv6-unicast

  IPv6 unicast address family
- ipv4-unicast

  IPv4 unicast address family

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Used to administratively enable or disable the OSPF instance

Context network-instance name *string* protocols ospf instance name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

advertise-router-capability *keyword*

Description Scope to advertise router-capability.

Context network-instance name *string* protocols ospf instance name *string* advertise-router-capability *keyword*

Tree advertise-router-capability

Options

- false
- link
- area
- as

Configurable True

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Platforms	Supported on all platforms

area area-id

Description	The OSPF areas within which the local system exists
Context	network-instance name *string* protocols ospf instance name *string* area area-id
Tree	area
Configurable	True
Platforms	Supported on all platforms

area-id

Description	the area identifier as a dotted-quad.
Context	network-instance name *string* protocols ospf instance name *string* area area-id
Configurable	True
Platforms	Supported on all platforms

active-interfaces *number*

Description	The number of active interfaces in this area.
Context	network-instance name *string* protocols ospf instance name *string* area area-id active-interfaces *number*
Tree	active-interfaces
Configurable	False
Platforms	Supported on all platforms

advertise-router-capability *boolean*

Description	Allow router advertisement capabilities
Context	network-instance name *string* protocols ospf instance name *string* area area-id advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Configurable	True
Platforms	Supported on all platforms

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area-bdr-rtr-count

Description	The total number of area border routers reachable within this area.
Context	network-instance name *string* protocols ospf instance name *string* area area-id area-bdr-rtr-count
Tree	area-bdr-rtr-count
Configurable	False
Platforms	Supported on all platforms

area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Description	Enter the area-range context
Context	network-instance name *string* protocols ospf instance name *string* area area-id area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*
Tree	area-range
Configurable	True
Platforms	Supported on all platforms

ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Description	ip-prefix with host bits set to 0
Context	network-instance name *string* protocols ospf instance name *string* area area-id area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*
Configurable	True
Platforms	Supported on all platforms

advertise *boolean*

Description	Advertise summarized range of addresses to other areas
Context	network-instance name *string* protocols ospf instance name *string* area area-id area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)* advertise *boolean*
Tree	advertise
Default	true
Configurable	True
Platforms	Supported on all platforms

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as-bdr-rtr-count

Description	The total number of autonomous system border routers reachable within this area.
Context	network-instance name *string* protocols ospf instance name *string* area area-id as-bdr-rtr-count
Tree	as-bdr-rtr-count
Configurable	False
Platforms	Supported on all platforms

blackhole-aggregate *boolean*

Description	Enables the creation of a blackhole for generated aggregates
Context	network-instance name *string* protocols ospf instance name *string* area area-id blackhole-aggregate *boolean*
Tree	blackhole-aggregate
Default	true
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy when summarizing from this area to other areas.. Summary LSAs for prefixes matching the policy will still be in the linkstate database but are not flooded.
Context	network-instance name *string* protocols ospf instance name *string* area area-id export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

full-spf-runs

Description	The total number of times that complete SPF has been run on the router since OSPF was last enabled.
Context	network-instance name *string* protocols ospf instance name *string* area area-id full-spf-runs

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Tree	full-spf-runs
Configurable	False
Platforms	Supported on all platforms

interface interface-name *string*

Description	List of OSPF interfaces
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

interface-name *string*

Description	Router logical interface name.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administrative state of the OSPF
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

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advertise-router-capability *boolean*

Description	Allow router advertisement capabilities
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Configurable	True
Platforms	Supported on all platforms

advertise-subnet *boolean*

Description	Advertise point-to-point interfaces as subnet routes
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* advertise-subnet *boolean*
Tree	advertise-subnet
Default	true
Configurable	True
Platforms	Supported on all platforms

authentication

Description	Enter the authentication context Container with authentication options that apply to all peers in this peer-group
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* authentication
Tree	authentication
Configurable	True
Platforms	Supported on all platforms

keychain *reference*

Description	Reference to a keychain. The keychain type must be ospf
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* authentication keychain *reference*
Tree	keychain

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Reference	system authentication keychain name *string*
Configurable	True
Platforms	Supported on all platforms

bad-packets

Description	Enter the bad-packets context Bad packets counters
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets
Tree	bad-packets
Configurable	False
Platforms	Supported on all platforms

auth-failures

Description	The total number of OSPF packets received with an invalid authorization key since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets auth-failures
Tree	auth-failures
Configurable	False
Platforms	Supported on all platforms

bad-area

Description	The total number of OSPF packets received with an area mismatch since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-area
Tree	bad-area
Configurable	False
Platforms	Supported on all platforms

bad-auth-type

Description	The total number of OSPF packets received with an invalid authorization type since admin-state was last set to 'enabled'.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-auth-type
Tree	bad-auth-type
Configurable	False
Platforms	Supported on all platforms

bad-checksum

Description	The count of LS-as received with bad checksums.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-checksum
Tree	bad-checksum
Configurable	False
Platforms	Supported on all platforms

bad-dead-interval

Description	The total number of OSPF packets received where the dead interval given in the packet was not equal to that configured on this interface since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-dead-interval
Tree	bad-dead-interval
Configurable	False
Platforms	Supported on all platforms

bad-dest-address

Description	The total number of OSPF packets received with the incorrect IP destination address since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-dest-address
Tree	bad-dest-address
Configurable	False
Platforms	Supported on all platforms

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bad-hello-interval

Description the value of bad-hello-intervals indicates the total number of OSPF packets received where the hello interval given in packet was not equal to that configured on this interface since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-hello-interval

Tree bad-hello-interval

Configurable False

Platforms Supported on all platforms

bad-length

Description The total number of OSPF packets received with a total length not equal to the length given in the packet itself since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-length

Tree bad-length

Configurable False

Platforms Supported on all platforms

bad-neighbors

Description The total number of OSPF packets received where the neighbor information does not match the information this router has for the neighbor since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-neighbors

Tree bad-neighbors

Configurable False

Platforms Supported on all platforms

bad-network

Description The total number of OSPF packets received with invalid network or mask since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-network

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Tree	bad-network
Configurable	False
Platforms	Supported on all platforms

bad-options

Description	The total number of OSPF packets received with an option that does not match those configured for this interface or area since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-options
Tree	bad-options
Configurable	False
Platforms	Supported on all platforms

bad-packet-type

Description	The total number of OSPF packets received with an invalid OSPF packet type since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-packet-type
Tree	bad-packet-type
Configurable	False
Platforms	Supported on all platforms

bad-version

Description	The total number of OSPF packets received with bad OSPF version numbers since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-version
Tree	bad-version
Configurable	False
Platforms	Supported on all platforms

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bad-virtual-link

Description	The total number of OSPF packets received that are destined to a virtual link that does not exist since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bad-packets bad-virtual-link
Tree	bad-virtual-link
Configurable	False
Platforms	Supported on all platforms

bdr-id

Description	the value of BDR-id indicates the router ID of the backup designated router.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* bdr-id
Tree	bdr-id
Configurable	False
Platforms	Supported on all platforms

dead-interval *number*

Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Default	40
Units	seconds
Configurable	True
Platforms	Supported on all platforms

dr-id

Description	the value of DR-id indicates the router ID of the designated router.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* dr-id

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Tree	dr-id
Configurable	False
Platforms	Supported on all platforms

events

Description	the value of events indicates the number of times this OSPF interface has changed its state, or an error has occurred.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* events
Tree	events
Configurable	False
Platforms	Supported on all platforms

failure-detection

Description	Enter the failure-detection context Options related to methods of detecting BGP session failure
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* failure-detection
Tree	failure-detection
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd *boolean*

Description	Enables the use of BFD for livliness detection
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* failure-detection enable-bfd *boolean*
Tree	enable-bfd
Default	false
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description	Time between OSPF Hellos of this interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Default	10
Units	seconds
Configurable	True
Platforms	Supported on all platforms

interface-type *keyword*

Description	Interface type to broadcast or point-to-point
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* interface-type *keyword*
Tree	interface-type
Options	• broadcast • point-to-point
Configurable	True
Platforms	Supported on all platforms

last-enabled-time *string*

Description	the value of last-enabled-time indicates the sys-up-time value when ospf-if-admin-stat was last set to enabled (1) to run the ospf on this interface.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* last-enabled-time *string*
Tree	last-enabled-time

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-event-time *string*

Description	the value of last-event-time indicates the value of sys-up-time when an event was last associated with this OSPF interface.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* last-event-time *string*
Tree	last-event-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

ldp-synchronization

Description	Enter the ldp-synchronization context Container with configuration options and state that pertains to the operation of LDP-IGP synchronization on this interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization
Tree	ldp-synchronization
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable

Description	Disable LDP-IGP synchronization procedures on this interface, even if synchronization is enabled globally
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization disable
Tree	disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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duration *number*

Description	The length of time that the IGP interface has been in sync or out of sync
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization duration *number*
Tree	duration
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-of-lib *boolean*

Description	When set to true, the IGP restores the normal metric for the IGP adjacency when learning from LDP that all label-FEC mappings have been received from the LDP peer, even if there is remaining time on the hold-down-timer. When set to false, the IGP always waits for the full duration of the hold-down-timer to restore the normal metric for the IGP adjacency. This overrides the global/instance level setting
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization end-of-lib *boolean*
Tree	end-of-lib
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description	The maximum amount of time that the IGP advertises a maximum metric for an interface, measured from the time that the LDP adjacency is re-established after going down. This overrides the global/instance level setting
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization hold-down-timer *number*
Tree	hold-down-timer
Range	1 to 1800

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Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-state *keyword*

Description The current state of the interface with respect to LDP-IGP sync

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* ldp-synchronization sync-state *keyword*

Tree sync-state

Options

- wait-for-LDP-adjacency

  The IGP is waiting for the LDP adjacency to come up. The interface is being advertised with max-metric

- hold-down-timer-active

  The LDP adjacency has come up and the IGP has started the hold-down-timer, waiting for either end-of-lib or hold-down-timer expiry. The interface is being advertised with max-metric

- end-of-lib-received

  The IGP received end-of-lib and has switched to normal operation. The interface is being aadveertised with a normal metric

- hold-down-timer-expired

  The IGP did not receive end-of-lib (or was configured to ignore it) but hold-down-timer has expired and normal metric is restored

- manual-exit

  A tools command was performed to exit ldp-sync. Normal operation is resumed, max-metric is removed

- disabled

  ldp-sync is not applicable on this interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-lsa-cksum-sum *string*

Description the value of link-lsa-cksum-sum indicates the 32-bit unsigned sum of the link-scope link-state advertisements' LS checksums contained in this link's link-state database. the sum can be used to determine if there has been

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a change in a router's link-state database, and to compare the link state database of two routers.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* link-lsa-cksum-sum *string*

Tree link-lsa-cksum-sum

Configurable False

Platforms Supported on all platforms

link-lsa-count

Description the value of link-lsa-count indicates the total number of link-scope link-state advertisements in this link's link-state database.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* link-lsa-count

Tree link-lsa-count

Configurable False

Platforms Supported on all platforms

local-ip-address *(ipv4-address | ipv6-address)*

Description the value of local-ip-address indicates the IP address of this OSPF interface.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* local-ip-address *(ipv4-address | ipv6-address)*

Tree local-ip-address

Configurable False

Platforms Supported on all platforms

loopfree-alternate-exclude *boolean*

Description Enable/disable Loopfree Alternative at interface level.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* loopfree-alternate-exclude *boolean*

Tree loopfree-alternate-exclude

Default false

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsa-filter-out *keyword*

Description LSA flooding reduction

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-filter-out *keyword*

Tree lsa-filter-out

Default none

Options

- none
- all
- except-own-rtrlsa
- except-own-rtrlsa-and-defaults

Configurable True

Platforms Supported on all platforms

lsa-totals

Description Enter the lsa-totals context

The number of LSAs of each type in this interface's database

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-totals

Tree lsa-totals

Configurable False

Platforms Supported on all platforms

e-link-lsa

Description The number of extended link LSAs in this interface's database.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-totals e-link-lsa

Tree e-link-lsa

Configurable False

Platforms Supported on all platforms

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link-lsa

Description The number of link LSAs in this interface's database.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-totals link-lsa

Tree link-lsa

Configurable False

Platforms Supported on all platforms

link-opaque-lsa

Description The number of link opaque LSAs in this interface's database.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-totals link-opaque-lsa

Tree link-opaque-lsa

Configurable False

Platforms Supported on all platforms

router-info-lsa

Description The number of link scoped router information LSAs in this interface's AS database.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsa-totals router-info-lsa

Tree router-info-lsa

Configurable False

Platforms Supported on all platforms

lsdb

Description Enter the lsdb context

The link-state database for the OSPF interface link

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb

Tree lsdb

Configurable False

Platforms Supported on all platforms

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lsa-types

Description Enter the lsa-types context

Enclosing container for a list of LSA types that are in the LSDB for the specified link

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types

Tree lsa-types

Configurable False

Platforms Supported on all platforms

lsa-type type *identityref*

Description List of LSA types in the LSDB for the specified link

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref*

Tree lsa-type

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of LSA being described. The type of the LSA is expressed as a canonical name.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref*

Options

- router-lsa

  Type 1 - router-lsa. An LSA originated by each router within the area describing the state and cost of the router's links in the area.

- network-lsa

  Type 2 - network-lsa. An LSA originated for each broadcast and non-broadcast multiple access (NBMA) in the area. This LSA is originated by the designated router.

- summary-ip-network-lsa

  Type 3 - summary-ip-network-lsa. An LSA originated by area border routers describing inter-area destinations. This LSA type is used when the destination is an IP network

- summary-asbr-lsa

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Type 4 - summary-asbr-lsa. An LSA originated by an area border router describing inter-area destinations. This LSA type is used when the destination is an AS boundary router.

- as-external-lsa

  Type 5 - as-external-lsa. This LSA type is used to describe destinations external to the autonomous system, and is originated by an AS boundary router (ASBR).

- nssa-as-external-lsa

  Type 7 - nssa-as-external-lsa. This LSA type is used by systems within a not-so-stubby-area (NSSA) to inject external prefixes into the LSDB. They are translated to Type 5 LSAs at an ABR device.

- ospfv2-link-scope-opaque-lsa

  Type 9 - ospfv2-link-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 9 have a scope of the link that they are being transmitted on (and the associated network or subnetwork).

- ospfv2-area-scope-opaque-lsa

  Type 10 - ospfv2-area-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 10 have a scope of the area that they are transmitted within.

- ospfv2-as-scope-opaque-lsa

  Type 11 - ospfv2-as-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 11 have a scope of the autonomous system that they are transmitted within.

- ospfv3-lsa-type

Configurable False

Platforms Supported on all platforms

lsas

Description Enter the lsas context

Enclosing container for a list of the LSAs of the specified type received by the system

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas

Tree lsas

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Configurable	False
Platforms	Supported on all platforms

lsa advertising-router *string* link-state-id *string*

Description	List of the link local LSAs of a specified type in the LSDB for the specified interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Tree	lsa
Configurable	False
Platforms	Supported on all platforms

advertising-router *string*

Description	The router ID of the router that originated the LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

link-state-id *string*

Description	The Link State ID for the specified LSA type. The exact defined value of the Link State ID is dependent on the LSA type.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

advertisement *string*

Description	Contents of the link state advertisement in hex, including the header.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* advertisement *string*

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Tree	advertisement
Configurable	False
Platforms	Supported on all platforms

age *number*

Description	The time since the LSA's generation in seconds
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* age *number*
Tree	age
Units	seconds
Configurable	False
Platforms	Supported on all platforms

checksum *string*

Description	The checksum of the complete contents of the LSA excluding the age field.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* checksum *string*
Tree	checksum
Configurable	False
Platforms	Supported on all platforms

opaque-lsa

Description	Enter the opaque-lsa context Contents of the opaque LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa
Tree	opaque-lsa
Configurable	False
Platforms	Supported on all platforms

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extended-link

Description Enter the extended-link context

The OSPFv2 Extended Link Opaque LSA, used to encapsulate TLV attributes associated with a link advertised in OSPF.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link

Tree extended-link

Configurable False

Platforms Supported on all platforms

link-data *number*

Description The data associated with the link type. The value is dependent upon the subtype of the LSA. When the connection is to a stub network it represents the mask; for p2p connections that are unnumbered it represents the ifIndex value of the router's interface; for all other connections it represents the local system's IP address

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-data *number*

Tree link-data

Configurable False

Platforms Supported on all platforms

link-id *string*

Description The identifier for the link specified. The value of the link identifier is dependent upon the type of the LSA. The value is specified to be, per sub-type: 1) Neighbouring router's router ID. 2) IP address of DR. 3) IP network address. 4) Neighbouring router router's ID.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-id *string*

Tree link-id

Configurable False

Platforms Supported on all platforms

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link-type *identityref*

Description The type of link with which extended attributes are associated

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-type *identityref*

Tree link-type

Options

- point-to-point-link

  The link is a point-to-point connection to another router
- transit-network-link

  The link is a connection to a transit network
- stub-network-link

  The link is a connection to a stub network
- virtual-link

  The link is a virtual connection to another router

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description List of TLVs within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv

Tree tlv

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Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV contained within the extended link TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv type *identityref*

Tree type

Options

- adjacency-sid

  The extended link sub-TLV indicates an Adjacency SID

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

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type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The sub-type of the Router LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link type *identityref*

Tree type

Options

- router-lsa-p2p

  The LSA represents a point-to-point connection to another router
- router-lsa-transit-network

  The LSA represents a connection to a transit network
- router-lsa-stub-network

  The LSA represents a connection to a stub network
- router-lsa-virtual-link

  The LSA represents a virtual link connection

Configurable False

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Platforms Supported on all platforms

extended-prefix

Description Enter the extended-prefix context

An OSPFv2 Extended Prefix Opaque LSA, used to encapsulate TLV attributes associated with a prefix advertised in OSPF.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix

Tree extended-prefix

Configurable False

Platforms Supported on all platforms

address-family *keyword*

Description The address family of the prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix address-family *keyword*

Tree address-family

Options

- IPV4_UNICAST

  The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix

Configurable False

Platforms Supported on all platforms

attached *boolean*

Description If this value is set to true, the prefix being advertised was generated by an ABR for an inter-area prefix. The value corresponds to the A-flag of the flags field of the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix attached *boolean*

Tree attached

Default false

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Configurable	False
Platforms	Supported on all platforms

node *boolean*

Description	If this value is set to true, the prefix being advertised represents the advertising router. Typically, the prefix within the LSA is expected to be globally-reachable prefix associated with a loopback interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix node *boolean*
Tree	node
Default	false
Configurable	False
Platforms	Supported on all platforms

prefix *string*

Description	The IPv4 prefix contained within the extended prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix *string*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-length *number*

Description	The length of the IPv4 prefix contained in the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix-length *number*
Tree	prefix-length
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

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route-type *keyword*

Description The type of prefix that is contained within the Extended Prefix LSA. The information contained in sub-TLVs of the attribute is applicable regardless of this value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix route-type *keyword*

Tree route-type

Options

- UNSPECIFIED

  The prefix described in the extended prefix LSA is of an unspecified type
- INTRA_AREA

  The prefix described in the extended prefix LSA is an intra-area prefix for the advertising system
- INTER_AREA

  The prefix described in the extended prefix LSA is an inter-area prefix for the advertising system
- AS_EXTERNAL

  The prefix described in the extended prefix LSA is external to the autonomous system of the advertising system
- NSSA_EXTERNAL

  The prefix described in the extended prefix LSA externally advertised from an NSSA area visibile to the advertising system

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

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tlv

Description A TLV contained within the extended prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

extended-prefix-range

Description Enter the extended-prefix-range context

State parameters relating to the extended prefix range sub-TLV of the extended prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range

Tree extended-prefix-range

Configurable False

Platforms Supported on all platforms

address-family *keyword*

Description The address family of the prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range address-family *keyword*

Tree address-family

Options

- IPV4_UNICAST

  The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix

Configurable False

Platforms Supported on all platforms

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inter-area *boolean*

Description	When this leaf is set to true, then the prefix range is inter-area - the flag is set by the ABR that advertises the Extended Prefix Range TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range inter-area *boolean*
Tree	inter-area
Default	false
Configurable	False
Platforms	Supported on all platforms

prefix *string*

Description	The first prefix in the range of prefixes being described by the extended prefix range sub-TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix *string*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-length *number*

Description	The length of the IPv4 prefix contained in the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix-length *number*
Tree	prefix-length
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

range-size *number*

Description	The number of prefixes that are covered by the advertisement.

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Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range range-size *number*

Tree range-size

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of sub-TLV as indicated by the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv type *identityref*

Tree type

Options

- extended-prefix-range

  The attributes being described relate to a range of prefixes

- prefix-sid

  The TLV describes a Segment Routing Prefix Segment Identifier associated with a prefix

- sid-label-binding

  The TLV describes a binding of a SID to a path to the prefix, which may have associated path characteristics

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

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length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

grace-lsa

Description Enter the grace-lsa context

The Grace LSA is utilised when a remote system is undergoing graceful restart

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Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa

Tree grace-lsa

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs of the Grace LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description TLV entry in the Grace LSA, advertised by a system undergoing graceful restart

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

ip-interface-address *string*

Description The restarting system's IP address on the interface via which the Grace LSA is being advertised.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv ip-interface-address *string*

Tree ip-interface-address

Configurable False

Platforms Supported on all platforms

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period *number*

Description The number of seconds that the router's neighbors should advertise the local system as fully adjacent regardless of database synchronization state

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv period *number*

Tree period

Units seconds

Configurable False

Platforms Supported on all platforms

reason *keyword*

Description The reason for the graceful restart event occurring, as advertised by the restarting system

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv reason *keyword*

Tree reason

Options

- UNKNOWN

  The reason for the graceful restart is unknown
- SOFTWARE_RESTART

  The local system is restarting due to a software component restart
- SOFTWARE_RELOAD_UPGRADE

  The local system is restarting due to a software reload or upgrade
- CONTROL_PROCESSOR_SWITCH

  The local system is restarting due to a switch to a redundant control plane element

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV received within the Grace LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas

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lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv type *identityref*

Tree type

Options

- grace-period

  This sub-TLV describes the period for which adjacencies should be maintained with the restarting system

- grace-restart-reason

  This sub-TLV describes the reason for the OSPF restart of the system that is restarting

- grace-ip-interface-address

  This sub-TLV specifies the restarting system's IP address on the interface via which it is advertising the Grace LSA

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

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type *number*

Description	The type value of the unknown TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv type *number*
Tree	type
Configurable	False
Platforms	Supported on all platforms

value *binary*

Description	The value portion of the unknwon TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv value *binary*
Tree	value
Configurable	False
Platforms	Supported on all platforms

router-information

Description	Enter the router-information context The router information LSA is utilised to advertise capabilities of a system to other systems who receive the LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information
Tree	router-information
Configurable	False
Platforms	Supported on all platforms

tlvs

Description	Enter the tlvs context The TLVs included within the Router Information LSA.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs
Tree	tlvs
Configurable	False
Platforms	Supported on all platforms

tlv

Description	TLV entry in the Router Information LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv
Tree	tlv
Configurable	False
Platforms	Supported on all platforms

informational-capabilities

Description	Enter the informational-capabilities context Information related to the capabilities of the advertising router within the scope that the opaque RI LSA is being advertised
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities
Tree	informational-capabilities
Configurable	False
Platforms	Supported on all platforms

experimental-te *boolean*

Description	When this leaf is set to ture, the advertising system supports the experimental extensions to OSPF for TE described in RFC4973
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities experimental-te *boolean*
Tree	experimental-te

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Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-capable *boolean*

Description	When this leaf is set to true, the advertising system is capable of OSPF graceful restart.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-capable *boolean*
Tree	graceful-restart-capable
Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-helper *boolean*

Description	When this leaf is set to true, the advertising system is capable of being a helper for OSPF graceful restart
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-helper *boolean*
Tree	graceful-restart-helper
Default	false
Configurable	False
Platforms	Supported on all platforms

point-to-point-over-lan *boolean*

Description	When this leaf is set to true, the advertising system supports treating LAN adjacencies as though they were point to point
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities point-to-point-over-lan *boolean*
Tree	point-to-point-over-lan
Default	false
Configurable	False

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Platforms	Supported on all platforms

stub-router *boolean*

Description	When this leaf is set to true, the advertising system is able to advertise its status as a stub router
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities stub-router *boolean*
Tree	stub-router
Default	false
Configurable	False
Platforms	Supported on all platforms

node-administrative-tags

Description	Enter the node-administrative-tags context Per-node administrative tags associated with the local system specified by the operator
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags
Tree	node-administrative-tags
Configurable	False
Platforms	Supported on all platforms

administrative-tags *number*

Description	The set of administrative tags assigned to the local system by the network operator. The meaning of these tags is opaque to OSPF
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags administrative-tags *number*
Tree	administrative-tags
Configurable	False
Platforms	Supported on all platforms

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type *(identityref | keyword)*

Description The type of sub-TLV of the Router Information opaque LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv type *(identityref | keyword)*

Tree type

Options

- ri-informational-capabilities

  Informational capabilities of the advertising system

- ri-functional-capabilities

  Functional capabilities of the advertising system

- ri-node-admin-tag

  Operator-defined administrative tags associated with the advertising system

- ri-sr-sid-label-range

  SID or Label ranges for use with segment routing when forwarding to the advertising system

- ri-sr-algorithm

  The algorithms that are supported for segment routing by the advertising system

Options

- UNKNOWN

  The TLV received within the RI LSA is unknown

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

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length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

scope *keyword*

Description The scope of the opaque LSA. The type of the LSA indicates its scope - the value of this leaf determines both the flooding domain, and the type of the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa scope *keyword*

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Tree scope

Options

- LINK

  The scope of the LSA is the current link. The LSA is not flooded beyond the local network. This enumeration denotes a Type 9 LSA.

- AREA

  The scope of the LSA is the local area. The LSA is not flooded beyond the area of origin. This enumeration denotes a Type 10 LSA.

- AS

  The scope of the LSA is the local autonomous system (AS). The flooding domain is the same as a Type 5 LSA - it is not flooded into stub areas or NSSAs. This enumeration denotes a Type 11 LSA.

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The Opaque Type of the LSA. This value is used to indicate the type of data carried by the opaque LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa type *identityref*

Tree type

Options

- traffic-engineering

  The Traffic Engineering LSA. This type is used only with area-scope Opaque LSAs - and is used to describe routers, point-to-point links and connections to multi-access networks for traffic engineering purposes.

- grace-lsa

  Grace LSAs are announced by a system undergoing graceful-restart. A system that is attempting an OSPF graceful restart announces Grace-LSAs with a specified grace period, indicating the intention to have completed an restart within the specified period.

- router-information

  The Router Information LSA is used by an OSPFv2 system to announce optional capabilities of the local system, over and above those that are included within the OSPF hello message field. The flooding scope of the LSA can be link-, area-, or AS-wide (i.e., the LSA type can be 9, 10 or 11).

- ospfv2-extended-prefix

  The Extended Prefix LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a prefix that is advertised in OSPF. The attributes are carried as one or more TLV tuples. The flooding scope of

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the LSA can be link-, area-, or AS-wide as specified by the advertising system. The flooding scope of the LSA may exceed the scope of the corresponding prefix.

- ospfv2-extended-link

  The Extended Link LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a link that is advertised in OSPF. The link attributes are carried as one or more TLV tuples. The flooding scope of the link LSA is area-local - i.e., it is carried in a Type 10 opaque LSA.

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas

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lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

options *string*

Description Contents of the options field

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* options *string*

Tree options

Configurable False

Platforms Supported on all platforms

ospfv3-link-lsa

Description Enter the ospfv3-link-lsa context

Link LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa

Tree ospfv3-link-lsa

Configurable False

Platforms Supported on all platforms

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link-local-interface-address *string*

Description The originating router's link-local interface address for the link.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa link-local-interface-address *string*

Tree link-local-interface-address

Configurable False

Platforms Supported on all platforms

lsa-options

Description Enter the lsa-options context

OSPFv3 LSA options.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa lsa-options

Tree lsa-options

Configurable False

Platforms Supported on all platforms

lsa-options *identityref*

Description OSPFv3 LSA Option flags list. This list will contain the identities for the OSPFv3 LSA options that are set for the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa lsa-options lsa-options *identityref*

Tree lsa-options

Options

- ospfv3-lsa-af-bit

  AF bit, when set, the router supports OSPFv3 Address Families as in RFC5838.

- ospfv3-lsa-dc-bit

  DC bit, when set, the router supports demand circuits.

- ospfv3-lsa-r-bit

  R bit, when set, the originator is an active router.

- ospfv3-lsa-n-bit

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N bit, when set, the router is attached to an NSSA

- ospfv3-lsa-e-bit

  E bit, this bit describes the way AS-external LSAs are flooded

- ospfv3-lsa-v6-bit

  V6 bit, if clear, the router/link should be excluded from IPv6 routing calculation

Configurable False

Platforms Supported on all platforms

num-of-prefixes *number*

Description Number of prefixes.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa num-of-prefixes *number*

Tree num-of-prefixes

Configurable False

Platforms Supported on all platforms

prefixes prefix *(ipv4-prefix | ipv6-prefix)*

Description List of prefixes associated with the link.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)*

Tree prefixes

Configurable False

Platforms Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description LSA Prefix.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)*

Configurable False

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Platforms Supported on all platforms

prefix-options

Description Enter the prefix-options context

Prefix options.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)* prefix-options

Tree prefix-options

Configurable False

Platforms Supported on all platforms

prefix-options *identityref*

Description OSPFv3 prefix option flag list. This list will contain the identities for the OSPFv3 options that are set for the OSPFv3 prefix.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)* prefix-options prefix-options *identityref*

Tree prefix-options

Options

- ospfv3-prefix-nu-bit

  NU Bit, when set, the prefix should be excluded from IPv6 unicast calculations.

- ospfv3-prefix-la-bit

  LA bit, when set, the prefix is actually an IPv6 interface address of the Advertising Router.

- ospfv3-prefix-p-bit

  P bit, when set, the NSSA area prefix should be translated to an AS External LSA and advertised by the translating NSSA Border Router.

- ospfv3-prefix-dn-bit

  DN bit, when set, the inter-area-prefix LSA or AS-external LSA prefix has been advertised as an L3VPN prefix.

Configurable False

Platforms Supported on all platforms

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rtr-priority *number*

Description	Router priority for DR election. A router with a higher priority will be preferred in the election and a value of 0 indicates the router is not eligible to become Designated Router or Backup Designated Router (BDR).
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-link-lsa rtr-priority *number*
Tree	rtr-priority
Configurable	False
Platforms	Supported on all platforms

sequence-number *string*

Description	A signed 32-bit integer used to detect old and duplicate LSAs. The greater the sequence number the more recent the LSA.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* sequence-number *string*
Tree	sequence-number
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	Explicit route cost metric that is applied to the interface. Setting the value to 0 or removing the metric will cause the metric to be derived from the link bandwidth and the reference-bandwidth
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* metric *number*
Tree	metric
Configurable	True
Platforms	Supported on all platforms

mtu *number*

Description	MTU for the OSPF to use on the interface. For OSPFv3 this must be minimum 1280.

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If the MTU defined here exceeds the actual IP-MTU of the interface, then the IP-MTU of the interface is used.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* mtu *number*

Tree mtu

Range 512 to 9486

Configurable True

Platforms Supported on all platforms

neighbor router-id

Description List of neighbors associated with this OSPF interface

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id

Tree neighbor

Configurable False

Platforms Supported on all platforms

router-id

Description The router-id advertised by the neighbor

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id

Configurable False

Platforms Supported on all platforms

address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description the value of address indicates the IP address of the neighbor associated with the local link.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Tree address

Configurable False

Platforms Supported on all platforms

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adjacency-state *identityref*

Description Current OSPF Neighbor state

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id adjacency-state *identityref*

Tree adjacency-state

Options

- down

  The initial state of a neighbor, indicating that no recent information has been received from the neighbor.

- attempt

  Utilised for neighbors that are attached to NBMA networks, it indicates that no information has been recently received from the neighbor but that Hello packets should be directly sent to that neighbor.

- init

  Indicates that a Hello packet has been received from the neighbor but bi-directional communication has not yet been established. That is to say that the local Router ID does not appear in the list of neighbors in the remote system's Hello packet.

- two-way

  Communication between the local and remote system is bi-directional such that the local system's Router ID is listed in the received remote system's Hello packet.

- exstart

  An adjacency with the remote system is being formed. The local system is currently transmitting empty database description packets in order to establish the primary/standby relationship for the adjacency.

- exchange

  The local and remote systems are currently exchanging database description packets in order to determine which elements of their local LSDBs are out of date.

- loading

  The local system is sending Link State Request packets to the remote system in order to receive the more recently LSAs that were discovered during the Exchange phase of the procedure establishing the adjacency.

- full

  The neighboring routers are fully adjacent such that both LSDBs are synchronized. The adjacency will appear in Router and Network LSAs

Configurable False

Platforms Supported on all platforms

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backup-designated-router

Description	Advertised backup designated router
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id backup-designated-router
Tree	backup-designated-router
Configurable	False
Platforms	Supported on all platforms

dead-time *number*

Description	The remaining number of seconds remaining in the neighbor's dead time interval
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id dead-time *number*
Tree	dead-time
Configurable	False
Platforms	Supported on all platforms

designated-router

Description	Advertised designated router
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id designated-router
Tree	designated-router
Configurable	False
Platforms	Supported on all platforms

last-established-time *string*

Description	Time then OSPF neighbor was last established
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id last-established-time *string*
Tree	last-established-time
String Length	20 to 32
Configurable	False

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Platforms	Supported on all platforms

last-event-time *string*

Description	the value of last-event-time indicates the value of sys-up-time when the last event occurred that affected the adjacency to the neighbour.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id last-event-time *string*
Tree	last-event-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-restart-time *string*

Description	the value of last-restart-time indicates the last time the neighbor attempted restart.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id last-restart-time *string*
Tree	last-restart-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

optional-capabilities

Description	Advertised Optional Capabilities
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id optional-capabilities
Tree	optional-capabilities
Configurable	False
Platforms	Supported on all platforms

priority *number*

Description	Router priority advertised by neighbor
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id priority *number*

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Tree	priority
Configurable	False
Platforms	Supported on all platforms

restart-helper-age *number*

Description	the value of restart-helper-age indicates the remaining time in the current OSPF graceful restart interval, if the router is acting as a restart helper for the neighbor.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id restart-helper-age *number*
Tree	restart-helper-age
Range	0 to 1800
Units	seconds
Configurable	False
Platforms	Supported on all platforms

restart-helper-exit-rc *keyword*

Description	the value of restart-helper-exit-rc indicates the outcome of the last attempt at acting as a graceful restart helper for the neighbor. none no restart has yet been attempted. in-progress A restart attempt is currently underway. completed the last restart completed successfully. timed-out the last restart timed out. topology-changed the last restart was aborted due to a topology change.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id restart-helper-exit-rc *keyword*
Tree	restart-helper-exit-rc
Options	• none • in-progress • completed • timed-out • topology-changed • bfd-down
Configurable	False
Platforms	Supported on all platforms

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restart-helper-status *keyword*

Description the value of restart-helper-status indicates whether the router is acting as a graceful restart helper for the neighbor.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id restart-helper-status *keyword*

Tree restart-helper-status

Options
- not-helping
- helping

Configurable False

Platforms Supported on all platforms

restart-reason *(number | keyword)*

Description the value of restart-reason indicates the OSPF neighbor's graceful restart reason.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id restart-reason *(number | keyword)*

Tree restart-reason

Range 4 to 4294967295

Options
- unknown
- sw-restart
- sw-reload
- switch-red

Configurable False

Platforms Supported on all platforms

retransmission-queue-length *number*

Description Enter the retransmission-queue-length context

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id retransmission-queue-length *number*

Tree retransmission-queue-length

Configurable False

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Platforms Supported on all platforms

state-changes *number*

Description total numer of OSPF state changes

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id state-changes *number*

Tree state-changes

Configurable False

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

bad-mtu

Description the value of bad-MT-us indicates the total number of times when the MTU in a received database description packet was larger than the MTU of the receiving interface since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics bad-mtu

Tree bad-mtu

Configurable False

Platforms Supported on all platforms

bad-nbr-states

Description the value of bad-nbr-states indicates the total number of OSPF packets received when the neighbor state was not expecting to receive this packet type since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics bad-nbr-states

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Tree	bad-nbr-states
Configurable	False
Platforms	Supported on all platforms

bad-packets

Description	the value of bad-packets indicates the total number of times when an LS update was received with an illegal LS type or an option mismatch since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics bad-packets
Tree	bad-packets
Configurable	False
Platforms	Supported on all platforms

bad-seq-nums

Description	the value of bad-seq-nums indicates the total number of times when a database description packet was received with a sequence number mismatch since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics bad-seq-nums
Tree	bad-seq-nums
Configurable	False
Platforms	Supported on all platforms

duplicates

Description	the value of duplicates indicates the total number of times when a duplicate database description packet was received during the exchange state since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics duplicates
Tree	duplicates
Configurable	False
Platforms	Supported on all platforms

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events

Description the value of events indicates the number of times this neighbor relationship has changed state, or an error has occurred.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics events

Tree events

Configurable False

Platforms Supported on all platforms

lsa-install-failed

Description the value of lsa-install-failed indicates the total number of times an LSA could not be installed into the LSDB due to a resource allocation issue since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics lsa-install-failed

Tree lsa-install-failed

Configurable False

Platforms Supported on all platforms

lsa-not-in-lsdbs

Description the value of lsa-not-in-lsdbs indicates the total number of times when an LS request was received for an LSA not installed in the LSDB of this router since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics lsa-not-in-lsdbs

Tree lsa-not-in-lsdbs

Configurable False

Platforms Supported on all platforms

num-restarts

Description the value of num-restarts indicates the number of times the neighbor has attempted restart.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics num-restarts

Tree num-restarts

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Configurable	False
Platforms	Supported on all platforms

option-mismatches

Description	the value of option-mismatches indicates the total number of times when a LS update was received with an option mismatch since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor router-id statistics option-mismatches
Tree	option-mismatches
Configurable	False
Platforms	Supported on all platforms

neighbor-count

Description	The total number of OSPF neighbors adjacent on this interface, in a state of INIT or greater, since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbor-count
Tree	neighbor-count
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	the OSPF interface state.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* oper-state *keyword*
Tree	oper-state
Options	• down • loopback • waiting • point-to-point • designated-router • backup-designated-router • other-designated-router

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Configurable	False
Platforms	Supported on all platforms

packets

Description	Enter the packets context Packet counters
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets
Tree	packets
Configurable	False
Platforms	Supported on all platforms

discarded

Description	The total number of OSPF packets discarded since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets discarded
Tree	discarded
Configurable	False
Platforms	Supported on all platforms

retransmits

Description	The total number of OSPF retransmits since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets retransmits
Tree	retransmits
Configurable	False
Platforms	Supported on all platforms

rx-db-description

Description	The total number of OSPF database description packets received since admin-state was last set to 'enabled'.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-db-description
Tree	rx-db-description
Configurable	False
Platforms	Supported on all platforms

rx-hello

Description	The total number of OSPF hello packets received since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-hello
Tree	rx-hello
Configurable	False
Platforms	Supported on all platforms

rx-ls-ack

Description	The total number of link state acknowledgements received since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-ls-ack
Tree	rx-ls-ack
Configurable	False
Platforms	Supported on all platforms

rx-ls-request

Description	The total number of link state requests (LS-rs) received since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-ls-request
Tree	rx-ls-request
Configurable	False
Platforms	Supported on all platforms

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rx-ls-update

Description The total number of link state updates (LS-us) received since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-ls-update

Tree rx-ls-update

Configurable False

Platforms Supported on all platforms

rx-total

Description The total number of OSPF packets received since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets rx-total

Tree rx-total

Configurable False

Platforms Supported on all platforms

tx-db-description

Description The total number of OSPF database description packets transmitted since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-db-description

Tree tx-db-description

Configurable False

Platforms Supported on all platforms

tx-hello

Description The total number of OSPF hello packets transmitted since admin-state was last set to 'enabled'.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-hello

Tree tx-hello

Configurable False

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Platforms	Supported on all platforms

tx-ls-ack

Description	The total number of OSPF link state acknowledgements transmitted since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-ls-ack
Tree	tx-ls-ack
Configurable	False
Platforms	Supported on all platforms

tx-ls-request

Description	The total number of OSPF link state requests (LS-rs)transmitted since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-ls-request
Tree	tx-ls-request
Configurable	False
Platforms	Supported on all platforms

tx-ls-update

Description	The total number of OSPF link state updates (LS-us) transmitted since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-ls-update
Tree	tx-ls-update
Configurable	False
Platforms	Supported on all platforms

tx-total

Description	The total number of OSPF packets transmitted since admin-state was last set to 'enabled'.
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* packets tx-total

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Tree	tx-total
Configurable	False
Platforms	Supported on all platforms

passive *boolean*

Description	Allow interface to be advertised as an OSPF interface without running the OSPF protocol
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* passive *boolean*
Tree	passive
Configurable	True
Platforms	Supported on all platforms

priority *number*

Description	Priority of the interface to apply in the designated router election on the subnet
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* priority *number*
Tree	priority
Range	0 to 255
Default	1
Configurable	True
Platforms	Supported on all platforms

retransmit-interval *number*

Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Default	5
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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trace-options

Description Enter the trace-options context

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options

Tree trace-options

Configurable True

Platforms Supported on all platforms

trace

Description Enter the trace context

Tracing parameter flags

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace

Tree trace

Configurable True

Platforms Supported on all platforms

adjacencies

Description Enable tracing all adjacency events.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace adjacencies

Tree adjacencies

Configurable True

Platforms Supported on all platforms

interfaces

Description Enable tracing all interface events.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace interfaces

Tree interfaces

Configurable True

Platforms Supported on all platforms

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packet

Description Trace OSPF Packet types Only one type can be enabled at a time

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace packet

Tree packet

Configurable True

Platforms Supported on all platforms

detail

Description To enable detailed tracing. Includes both received and sent packets.

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace packet detail

Tree detail

Configurable True

Platforms Supported on all platforms

modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace packet modifier *keyword*

Tree modifier

Options

- ingress

  To enable tracing for the packets which are received.
- egress

  To enable tracing for the sent packets.
- in-and-egress

  To enable tracing for both sent and received packets
- drop

  To enable tracing for the sent packets.

Configurable True

Platforms Supported on all platforms

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type *keyword*

Description Enter the type context

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* trace-options trace packet type *keyword*

Tree type

Options

- all

  Enable tracing of all OSPF packets
- hello

  Enable tracing of OSPF Hello packets
- dbdescr

  Enable tracing of OSPF database Descriptor packets
- ls-request

  Enable tracing of OSPF link-state request packets
- ls-update

  Enable tracing of OSPF link-state update packets
- ls-ack

  Enable tracing of OSPF link-state Ack packets

Configurable True

Platforms Supported on all platforms

transit-delay *number*

Description Time required to transmit an LSA on the interface, virtual link, or sham link

Context network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* transit-delay *number*

Tree transit-delay

Range 1 to 1800

Default 1

Units seconds

Configurable True

Platforms Supported on all platforms

last-spf-run-time *string*

Description The sys-up-time when intra-area SPF was last run on this area.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id last-spf-run-time *string*
Tree	last-spf-run-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

loopfree-alternate-exclude *boolean*

Description	Enable/disable Loopfree Alternative at area level.
Context	network-instance name *string* protocols ospf instance name *string* area area-id loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsa-filter-totals

Description	Enter the lsa-filter-totals context The number of LSAs not sent due to area policy.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-filter-totals
Tree	lsa-filter-totals
Configurable	False
Platforms	Supported on all platforms

export-filtered

Description	The number of LSAs not sent due to area export policy.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-filter-totals export-filtered
Tree	export-filtered
Configurable	False
Platforms	Supported on all platforms

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import-filtered

Description	The number of LSAs not sent due to area import policy.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-filter-totals import-filtered
Tree	import-filtered
Configurable	False
Platforms	Supported on all platforms

lsa-totals

Description	Enter the lsa-totals context The number of LSAs of each type in this area's database
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals
Tree	lsa-totals
Configurable	False
Platforms	Supported on all platforms

area-opaque-lsa

Description	The number of NSSA LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals area-opaque-lsa
Tree	area-opaque-lsa
Configurable	False
Platforms	Supported on all platforms

asbr-summary-lsa

Description	The number of ASBR summary LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals asbr-summary-lsa
Tree	asbr-summary-lsa
Configurable	False
Platforms	Supported on all platforms

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e-inter-area-prefix-lsa

Description	The number of OSPFv3 E-inter-area-prefix LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-inter-area-prefix-lsa
Tree	e-inter-area-prefix-lsa
Configurable	False
Platforms	Supported on all platforms

e-inter-area-router-lsa

Description	The number of OSPFv3 E-inter-area-router LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-inter-area-router-lsa
Tree	e-inter-area-router-lsa
Configurable	False
Platforms	Supported on all platforms

e-intra-area-prefix-lsa

Description	The number of OSPFv3 E-intra-area-prefix LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-intra-area-prefix-lsa
Tree	e-intra-area-prefix-lsa
Configurable	False
Platforms	Supported on all platforms

e-network-lsa

Description	The number of OSPFv3 E-network LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-network-lsa
Tree	e-network-lsa
Configurable	False
Platforms	Supported on all platforms

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e-nssa-lsa

Description	The number of OSPFv3 E-NSSA LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-nssa-lsa
Tree	e-nssa-lsa
Configurable	False
Platforms	Supported on all platforms

e-router-lsa

Description	The number of OSPFv3 E-router LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals e-router-lsa
Tree	e-router-lsa
Configurable	False
Platforms	Supported on all platforms

inter-area-prefix-lsa

Description	The number of OSPFv3 inter-area-prefix LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals inter-area-prefix-lsa
Tree	inter-area-prefix-lsa
Configurable	False
Platforms	Supported on all platforms

inter-area-router-lsa

Description	The number of OSPFv3 inter-area-router LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals inter-area-router-lsa
Tree	inter-area-router-lsa
Configurable	False
Platforms	Supported on all platforms

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intra-area-prefix-lsa

Description	The number of OSPFv3 intra-area-prefix LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals intra-area-prefix-lsa
Tree	intra-area-prefix-lsa
Configurable	False
Platforms	Supported on all platforms

network-lsa

Description	The number of network LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals network-lsa
Tree	network-lsa
Configurable	False
Platforms	Supported on all platforms

network-summary-lsa

Description	The number of network summary LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals network-summary-lsa
Tree	network-summary-lsa
Configurable	False
Platforms	Supported on all platforms

nssa-lsa

Description	The number of NSSA LSAs in this area's link-state database.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals nssa-lsa
Tree	nssa-lsa
Configurable	False
Platforms	Supported on all platforms

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router-info-lsa

Description The number of OSPFv3 router-info LSAs in this area's link-state database.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals router-info-lsa

Tree router-info-lsa

Configurable False

Platforms Supported on all platforms

router-lsa

Description The number of router LSAs in this area's link-state database.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals router-lsa

Tree router-lsa

Configurable False

Platforms Supported on all platforms

total

Description The number of area scope LSAs within this area.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals total

Tree total

Configurable False

Platforms Supported on all platforms

total-lsa-cksum-sum *string*

Description The 32-bit unsigned sum of the area scope LSA checksums contained in this area's link-state database. The sum can be used to determine if there has been a change in a router's link-state database, and to compare the link-state database of two routers.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals total-lsa-cksum-sum *string*

Tree total-lsa-cksum-sum

Configurable False

Platforms Supported on all platforms

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unknown-lsa

Description The number of unknown LSA advertisements in this area's link-state database.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsa-totals unknown-lsa

Tree unknown-lsa

Configurable False

Platforms Supported on all platforms

lsdb

Description Enter the lsdb context

The link-state database for the OSPFv2 area

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb

Tree lsdb

Configurable False

Platforms Supported on all platforms

identifier

Description An identifier for the area, expressed as a dotted quad or an unsigned 32-bit integer

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb identifier

Tree identifier

Configurable False

Platforms Supported on all platforms

lsa-types

Description Enter the lsa-types context

Enclosing container for a list of LSA types that are in the LSDB for the specified area

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types

Tree lsa-types

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Configurable	False
Platforms	Supported on all platforms

lsa-type type *identityref*

Description	List of LSA types in the LSDB for the specified area
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref*
Tree	lsa-type
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	The type of LSA being described. The type of the LSA is expressed as a canonical name.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref*
Options	• router-lsa Type 1 - router-lsa. An LSA originated by each router within the area describing the state and cost of the router's links in the area. • network-lsa Type 2 - network-lsa. An LSA originated for each broadcast and non-broadcast multiple access (NBMA) in the area. This LSA is originated by the designated router. • summary-ip-network-lsa Type 3 - summary-ip-network-lsa. An LSA originated by area border routers describing inter-area destinations. This LSA type is used when the destination is an IP network • summary-asbr-lsa Type 4 - summary-asbr-lsa. An LSA originated by an area border router describing inter-area destinations. This LSA type is used when the destination is an AS boundary router. • as-external-lsa Type 5 - as-external-lsa. This LSA type is used to describe destinations external to the autonomous system, and is originated by an AS boundary router (ASBR). • nssa-as-external-lsa

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Type 7 - nssa-as-external-lsa. This LSA type is used by systems within a not-so-stubby-area (NSSA) to inject external prefixes into the LSDB. They are translated to Type 5 LSAs at an ABR device.

- ospfv2-link-scope-opaque-lsa

  Type 9 - ospfv2-link-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 9 have a scope of the link that they are being transmitted on (and the associated network or subnetwork).

- ospfv2-area-scope-opaque-lsa

  Type 10 - ospfv2-area-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 10 have a scope of the area that they are transmitted within.

- ospfv2-as-scope-opaque-lsa

  Type 11 - ospfv2-as-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 11 have a scope of the autonomous system that they are transmitted within.

- ospfv3-lsa-type

Configurable False

Platforms Supported on all platforms

lsas

Description Enter the lsas context

Enclosing container for a list of the LSAs of the specified type received by the system

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas

Tree lsas

Configurable False

Platforms Supported on all platforms

lsa advertising-router *string* link-state-id *string*

Description List of the LSAs of a specified type in the LSDB for the specified area

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Tree	lsa
Configurable	False
Platforms	Supported on all platforms

advertising-router *string*

Description	The router ID of the router that originated the LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

link-state-id *string*

Description	The Link State ID for the specified LSA type. The exact defined value of the Link State ID is dependent on the LSA type.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

advertisement *string*

Description	Contents of the link state advertisement in hex, including the header.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* advertisement *string*
Tree	advertisement
Configurable	False
Platforms	Supported on all platforms

age *number*

Description	The time since the LSA's generation in seconds

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* age *number*
Tree	age
Units	seconds
Configurable	False
Platforms	Supported on all platforms

checksum *string*

Description	The checksum of the complete contents of the LSA excluding the age field.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* checksum *string*
Tree	checksum
Configurable	False
Platforms	Supported on all platforms

network-lsa

Description	Enter the network-lsa context Contents of the network LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* network-lsa
Tree	network-lsa
Configurable	False
Platforms	Supported on all platforms

attached-router

Description	A list of the router ID of the routers that are attached to the network described by the Network LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* network-lsa attached-router
Tree	attached-router
Configurable	False

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Platforms	Supported on all platforms

network-mask *number*

Description	The mask of the network described by the Network LSA represented as a CIDR mask.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* network-lsa network-mask *number*
Tree	network-mask
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

nssa-external-lsa

Description	Enter the nssa-external-lsa context Contents of the NSSA External LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa
Tree	nssa-external-lsa
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	An opaque tag that set by the LSA originator to carry information relating to the external route
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

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forwarding-address *string*

Description	The destination to which traffic for the external prefix should be advertised. When this value is set to 0.0.0.0 then traffic should be forwarded to the LSA's originator
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa forwarding-address *string*
Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

mask *number*

Description	The subnet mask for the advertised destination
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa mask *number*
Tree	mask
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The cost to reach the external network specified. The exact interpretation of this cost is dependent on the type of metric specified
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

metric-type *keyword*

Description	The type of metric included within the AS External LSA.

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Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa metric-type *keyword*

Tree metric-type

Options

- TYPE_1

  When the metric of a prefix is specified as Type 1 then it is considered to be expressed in the same units as the link-state metrics carried in OSPF. That is to say that the metric advertised is directly compared to the internal cost

- TYPE_2

  When the metric of a prefix is specified as Type 2 then it is considered to be expressed as a cost in addition to that of the link-state metric to the advertising router. That is to say that the metric is considered to be the cost to the advertising router plus the advertised metric for the external entity

Configurable False

Platforms Supported on all platforms

propagate *boolean*

Description When this bit is set to true, an NSSA border router will translate a Type 7 LSA (NSSA External) to a Type 5 LSA (AS External).

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa propagate *boolean*

Tree propagate

Configurable False

Platforms Supported on all platforms

types-of-service

Description Enter the types-of-service context

Breakdown of the NSSA External LSA contents specifying multiple TOS values

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service

Tree types-of-service

Configurable False

Platforms Supported on all platforms

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type-of-service tos *number*

Description	Per-type of service parameters for the NSSA external LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service type-of-service tos *number*
Tree	type-of-service
Configurable	False
Platforms	Supported on all platforms

tos *number*

Description	OSPF encoding of the type of service referred to by this LSA. Encoding for OSPF TOS are described in RFC2328.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service type-of-service tos *number*
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	An opaque tag that set by the LSA originator to carry information relating to the external route
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service type-of-service tos *number* external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

forwarding-address *string*

Description	The destination to which traffic for the external prefix should be advertised. When this value is set to 0.0.0.0 then traffic should be forwarded to the LSA's originator

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service type-of-service tos *number* forwarding-address *string*
Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The metric value to be used for the TOS specified. This value represents the cost of use of the link for the specific type of service.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* nssa-external-lsa types-of-service type-of-service tos *number* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

opaque-lsa

Description	Enter the opaque-lsa context Contents of the opaque LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa
Tree	opaque-lsa
Configurable	False
Platforms	Supported on all platforms

extended-link

Description	Enter the extended-link context The OSPFv2 Extended Link Opaque LSA, used to encapsulate TLV attributes associated with a link advertised in OSPF.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link

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Tree	extended-link
Configurable	False
Platforms	Supported on all platforms

link-data *number*

Description	The data associated with the link type. The value is dependent upon the subtype of the LSA. When the connection is to a stub network it represents the mask; for p2p connections that are unnumbered it represents the ifIndex value of the router's interface; for all other connections it represents the local system's IP address
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-data *number*
Tree	link-data
Configurable	False
Platforms	Supported on all platforms

link-id *string*

Description	The identifier for the link specified. The value of the link identifier is dependent upon the type of the LSA. The value is specified to be, per sub-type: 1) Neighbouring router's router ID. 2) IP address of DR. 3) IP network address. 4) Neighbouring router router's ID.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-id *string*
Tree	link-id
Configurable	False
Platforms	Supported on all platforms

link-type *identityref*

Description	The type of link with which extended attributes are associated
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-type *identityref*
Tree	link-type
Options	• point-to-point-link The link is a point-to-point connection to another router

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- transit-network-link

  The link is a connection to a transit network
- stub-network-link

  The link is a connection to a stub network
- virtual-link

  The link is a virtual connection to another router

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description List of TLVs within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV contained within the extended link TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv type *identityref*

Tree type

Options

- adjacency-sid

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The extended link sub-TLV indicates an Adjacency SID

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

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value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The sub-type of the Router LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link type *identityref*

Tree type

Options

- router-lsa-p2p

  The LSA represents a point-to-point connection to another router
- router-lsa-transit-network

  The LSA represents a connection to a transit network
- router-lsa-stub-network

  The LSA represents a connection to a stub network
- router-lsa-virtual-link

  The LSA represents a virtual link connection

Configurable False

Platforms Supported on all platforms

extended-prefix

Description Enter the extended-prefix context

An OSPFv2 Extended Prefix Opaque LSA, used to encapsulate TLV attributes associated with a prefix advertised in OSPF.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix

Tree extended-prefix

Configurable False

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Platforms	Supported on all platforms

address-family *keyword*

Description	The address family of the prefix contained in the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix address-family *keyword*
Tree	address-family
Options	• IPV4_UNICAST The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix
Configurable	False
Platforms	Supported on all platforms

attached *boolean*

Description	If this value is set to true, the prefix being advertised was generated by an ABR for an inter-area prefix. The value corresponds to the A-flag of the flags field of the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix attached *boolean*
Tree	attached
Default	false
Configurable	False
Platforms	Supported on all platforms

node *boolean*

Description	If this value is set to true, the prefix being advertised represents the advertising router. Typically, the prefix within the LSA is expected to be globally-reachable prefix associated with a loopback interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix node *boolean*
Tree	node
Default	false
Configurable	False

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Platforms	Supported on all platforms

prefix *string*

Description	The IPv4 prefix contained within the extended prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix *string*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-length *number*

Description	The length of the IPv4 prefix contained in the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix-length *number*
Tree	prefix-length
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

route-type *keyword*

Description	The type of prefix that is contained within the Extended Prefix LSA. The information contained in sub-TLVs of the attribute is applicable regardless of this value.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix route-type *keyword*
Tree	route-type
Options	• UNSPECIFIED The prefix described in the extended prefix LSA is of an unspecified type • INTRA_AREA The prefix described in the extended prefix LSA is an intra-area prefix for the advertising system • INTER_AREA

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The prefix described in the extended prefix LSA is an inter-area prefix for the advertising system

- AS_EXTERNAL

  The prefix described in the extended prefix LSA is external to the autonomous system of the advertising system

- NSSA_EXTERNAL

  The prefix described in the extended prefix LSA externally advertised from an NSSA area visibile to the advertising system

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description A TLV contained within the extended prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

extended-prefix-range

Description Enter the extended-prefix-range context

State parameters relating to the extended prefix range sub-TLV of the extended prefix LSA

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Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range

Tree extended-prefix-range

Configurable False

Platforms Supported on all platforms

address-family *keyword*

Description The address family of the prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range address-family *keyword*

Tree address-family

Options

- IPV4_UNICAST

  The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix

Configurable False

Platforms Supported on all platforms

inter-area *boolean*

Description When this leaf is set to true, then the prefix range is inter-area - the flag is set by the ABR that advertises the Extended Prefix Range TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range inter-area *boolean*

Tree inter-area

Default false

Configurable False

Platforms Supported on all platforms

prefix *string*

Description The first prefix in the range of prefixes being described by the extended prefix range sub-TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string*

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link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix *string*

Tree prefix

Configurable False

Platforms Supported on all platforms

prefix-length *number*

Description The length of the IPv4 prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix-length *number*

Tree prefix-length

Range 0 to 32

Configurable False

Platforms Supported on all platforms

range-size *number*

Description The number of prefixes that are covered by the advertisement.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range range-size *number*

Tree range-size

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of sub-TLV as indicated by the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv type *identityref*

Tree type

Options

- extended-prefix-range

  The attributes being described relate to a range of prefixes

- prefix-sid

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The TLV describes a Segment Routing Prefix Segment Identifier associated with a prefix

- sid-label-binding

  The TLV describes a binding of a SID to a path to the prefix, which may have associated path characteristics

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv type *number*

Tree type

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Configurable	False
Platforms	Supported on all platforms

value *binary*

Description	The value portion of the unknwon TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv value *binary*
Tree	value
Configurable	False
Platforms	Supported on all platforms

grace-lsa

Description	Enter the grace-lsa context The Grace LSA is utilised when a remote system is undergoing graceful restart
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa
Tree	grace-lsa
Configurable	False
Platforms	Supported on all platforms

tlvs

Description	Enter the tlvs context TLVs of the Grace LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs
Tree	tlvs
Configurable	False
Platforms	Supported on all platforms

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tlv

Description TLV entry in the Grace LSA, advertised by a system undergoing graceful restart

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

ip-interface-address *string*

Description The restarting system's IP address on the interface via which the Grace LSA is being advertised.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv ip-interface-address *string*

Tree ip-interface-address

Configurable False

Platforms Supported on all platforms

period *number*

Description The number of seconds that the router's neighbors should advertise the local system as fully adjacent regardless of database synchronization state

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv period *number*

Tree period

Units seconds

Configurable False

Platforms Supported on all platforms

reason *keyword*

Description The reason for the graceful restart event occurring, as advertised by the restarting system

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv reason *keyword*

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Tree reason

Options

- UNKNOWN

  The reason for the graceful restart is unknown
- SOFTWARE_RESTART

  The local system is restarting due to a software component restart
- SOFTWARE_RELOAD_UPGRADE

  The local system is restarting due to a software reload or upgrade
- CONTROL_PROCESSOR_SWITCH

  The local system is restarting due to a switch to a redundant control plane element

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV received within the Grace LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv type *identityref*

Tree type

Options

- grace-period

  This sub-TLV describes the period for which adjacencies should be maintained with the restarting system
- grace-restart-reason

  This sub-TLV describes the reason for the OSPF restart of the system that is restarting
- grace-ip-interface-address

  This sub-TLV specifies the restarting system's IP address on the interface via which it is advertising the Grace LSA

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

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Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

router-information

Description Enter the router-information context

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The router information LSA is utilised to advertise capabilities of a system to other systems who receive the LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information

Tree router-information

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

The TLVs included within the Router Information LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description TLV entry in the Router Information LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

informational-capabilities

Description Enter the informational-capabilities context

Information related to the capabilities of the advertising router within the scope that the opaque RI LSA is being advertised

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities

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Tree	informational-capabilities
Configurable	False
Platforms	Supported on all platforms

experimental-te *boolean*

Description	When this leaf is set to ture, the advertising system supports the experimental extensions to OSPF for TE described in RFC4973
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities experimental-te *boolean*
Tree	experimental-te
Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-capable *boolean*

Description	When this leaf is set to true, the advertising system is capable of OSPF graceful restart.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-capable *boolean*
Tree	graceful-restart-capable
Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-helper *boolean*

Description	When this leaf is set to true, the advertising system is capable of being a helper for OSPF graceful restart
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-helper *boolean*
Tree	graceful-restart-helper
Default	false
Configurable	False

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Platforms	Supported on all platforms

point-to-point-over-lan *boolean*

Description	When this leaf is set to true, the advertising system supports treating LAN adjacencies as though they were point to point
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities point-to-point-over-lan *boolean*
Tree	point-to-point-over-lan
Default	false
Configurable	False
Platforms	Supported on all platforms

stub-router *boolean*

Description	When this leaf is set to true, the advertising system is able to advertise its status as a stub router
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities stub-router *boolean*
Tree	stub-router
Default	false
Configurable	False
Platforms	Supported on all platforms

node-administrative-tags

Description	Enter the node-administrative-tags context Per-node administrative tags associated with the local system specified by the operator
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags
Tree	node-administrative-tags
Configurable	False
Platforms	Supported on all platforms

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administrative-tags *number*

Description The set of administrative tags assigned to the local system by the network operator. The meaning of these tags is opaque to OSPF

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags administrative-tags *number*

Tree administrative-tags

Configurable False

Platforms Supported on all platforms

type *(identityref | keyword)*

Description The type of sub-TLV of the Router Information opaque LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv type *(identityref | keyword)*

Tree type

Options

- ri-informational-capabilities

  Informational capabilities of the advertising system
- ri-functional-capabilities

  Functional capabilities of the advertising system
- ri-node-admin-tag

  Operator-defined administrative tags associated with the advertising system
- ri-sr-sid-label-range

  SID or Label ranges for use with segment routing when forwarding to the advertising system
- ri-sr-algorithm

  The algorithms that are supported for segment routing by the advertising system

Options

- UNKNOWN

  The TLV received within the RI LSA is unknown

Configurable False

Platforms Supported on all platforms

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unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string*

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link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

scope *keyword*

Description The scope of the opaque LSA. The type of the LSA indicates its scope - the value of this leaf determines both the flooding domain, and the type of the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa scope *keyword*

Tree scope

Options

- LINK

  The scope of the LSA is the current link. The LSA is not flooded beyond the local network. This enumeration denotes a Type 9 LSA.

- AREA

  The scope of the LSA is the local area. The LSA is not flooded beyond the area of origin. This enumeration denotes a Type 10 LSA.

- AS

  The scope of the LSA is the local autonomous system (AS). The flooding domain is the same as a Type 5 LSA - it is not flooded into stub areas or NSSAs. This enumeration denotes a Type 11 LSA.

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The Opaque Type of the LSA. This value is used to indicate the type of data carried by the opaque LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa type *identityref*

Tree type

Options

- traffic-engineering

  The Traffic Engineering LSA. This type is used only with area-scope Opaque LSAs - and is used to describe routers, point-to-point links and connections to multi-access networks for traffic engineering purposes.

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- grace-lsa

  Grace LSAs are announced by a system undergoing graceful-restart. A system that is attempting an OSPF graceful restart announces Grace-LSAs with a specified grace period, indicating the intention to have completed an restart within the specified period.

- router-information

  The Router Information LSA is used by an OSPFv2 system to announce optional capabilities of the local system, over and above those that are included within the OSPF hello message field. The flooding scope of the LSA can be link-, area-, or AS-wide (i.e., the LSA type can be 9, 10 or 11).

- ospfv2-extended-prefix

  The Extended Prefix LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a prefix that is advertised in OSPF. The attributes are carried as one or more TLV tuples. The flooding scope of the LSA can be link-, area-, or AS-wide as specified by the advertising system. The flooding scope of the LSA may exceed the scope of the corresponding prefix.

- ospfv2-extended-link

  The Extended Link LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a link that is advertised in OSPF. The link attributes are carried as one or more TLV tuples. The flooding scope of the link LSA is area-local - i.e., it is carried in a Type 10 opaque LSA.

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv length *number*
Tree	length
Configurable	False
Platforms	Supported on all platforms

type *number*

Description	The type value of the unknown TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv type *number*
Tree	type
Configurable	False
Platforms	Supported on all platforms

value *binary*

Description	The value portion of the unknwon TLV
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv value *binary*
Tree	value
Configurable	False
Platforms	Supported on all platforms

options *string*

Description	Contents of the options field
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* options *string*
Tree	options
Configurable	False
Platforms	Supported on all platforms

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ospfv3-external-lsa

Description	Enter the ospfv3-external-lsa context AS-External and NSSA LSA.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa
Tree	ospfv3-external-lsa
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	Route tag.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

flags *bits*

Description	Flags.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa flags *bits*
Tree	flags
Configurable	False
Platforms	Supported on all platforms

forwarding-address *(ipv4-address | ipv6-address)*

Description	Forwarding address.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa forwarding-address *(ipv4-address | ipv6-address)*

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Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	Metric
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	LSA Prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-options

Description	Enter the prefix-options context Prefix options.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix-options
Tree	prefix-options
Configurable	False
Platforms	Supported on all platforms

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prefix-options *identityref*

Description	OSPFv3 prefix option flag list. This list will contain the identities for the OSPFv3 options that are set for the OSPFv3 prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix-options prefix-options *identityref*
Tree	prefix-options
Options	• ospfv3-prefix-nu-bit NU Bit, when set, the prefix should be excluded from IPv6 unicast calculations. • ospfv3-prefix-la-bit LA bit, when set, the prefix is actually an IPv6 interface address of the Advertising Router. • ospfv3-prefix-p-bit P bit, when set, the NSSA area prefix should be translated to an AS External LSA and advertised by the translating NSSA Border Router. • ospfv3-prefix-dn-bit DN bit, when set, the inter-area-prefix LSA or AS-external LSA prefix has been advertised as an L3VPN prefix.
Configurable	False
Platforms	Supported on all platforms

referenced-link-state-id *number*

Description	Referenced Link State ID.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa referenced-link-state-id *number*
Tree	referenced-link-state-id
Configurable	False
Platforms	Supported on all platforms

referenced-ls-type *identityref*

Description	Referenced Link State type.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa referenced-ls-type *identityref*

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Tree referenced-ls-type

Options
- ospfv3-router-lsa
- ospfv3-network-lsa
- ospfv3-inter-area-prefix-lsa
- ospfv3-inter-area-router-lsa
- ospfv3-as-external-lsa
- ospfv3-nssa-as-external-lsa
- ospfv3-link-lsa
- ospfv3-intra-area-prefix-lsa
- ospfv3-router-information-lsa

Configurable False

Platforms Supported on all platforms

unknown-referenced-ls-type *number*

Description Value for an unknown Referenced Link State type.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa unknown-referenced-ls-type *number*

Tree unknown-referenced-ls-type

Configurable False

Platforms Supported on all platforms

ospfv3-inter-area-prefix-lsa

Description Enter the ospfv3-inter-area-prefix-lsa context

Prefix LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-prefix-lsa

Tree ospfv3-inter-area-prefix-lsa

Configurable False

Platforms Supported on all platforms

metric *number*

Description Inter-Area Prefix Metric

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-prefix-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	LSA Prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-prefix-lsa prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-options

Description	Enter the prefix-options context Prefix options.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-prefix-lsa prefix-options
Tree	prefix-options
Configurable	False
Platforms	Supported on all platforms

prefix-options *identityref*

Description	OSPFv3 prefix option flag list. This list will contain the identities for the OSPFv3 options that are set for the OSPFv3 prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-prefix-lsa prefix-options prefix-options *identityref*
Tree	prefix-options
Options	• ospfv3-prefix-nu-bit

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NU Bit, when set, the prefix should be excluded from IPv6 unicast calculations.

- ospfv3-prefix-la-bit

  LA bit, when set, the prefix is actually an IPv6 interface address of the Advertising Router.

- ospfv3-prefix-p-bit

  P bit, when set, the NSSA area prefix should be translated to an AS External LSA and advertised by the translating NSSA Border Router.

- ospfv3-prefix-dn-bit

  DN bit, when set, the inter-area-prefix LSA or AS-external LSA prefix has been advertised as an L3VPN prefix.

Configurable False

Platforms Supported on all platforms

ospfv3-inter-area-router-lsa

Description Enter the ospfv3-inter-area-router-lsa context

Inter-Area-Router LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-router-lsa

Tree ospfv3-inter-area-router-lsa

Configurable False

Platforms Supported on all platforms

destination-router-id

Description The Router ID of the ASBR described by the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-router-lsa destination-router-id

Tree destination-router-id

Configurable False

Platforms Supported on all platforms

lsa-options

Description Enter the lsa-options context

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OSPFv3 LSA options.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-router-lsa lsa-options

Tree lsa-options

Configurable False

Platforms Supported on all platforms

lsa-options *identityref*

Description OSPFv3 LSA Option flags list. This list will contain the identities for the OSPFv3 LSA options that are set for the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-router-lsa lsa-options lsa-options *identityref*

Tree lsa-options

Options

- ospfv3-lsa-af-bit

  AF bit, when set, the router supports OSPFv3 Address Families as in RFC5838.

- ospfv3-lsa-dc-bit

  DC bit, when set, the router supports demand circuits.

- ospfv3-lsa-r-bit

  R bit, when set, the originator is an active router.

- ospfv3-lsa-n-bit

  N bit, when set, the router is attached to an NSSA

- ospfv3-lsa-e-bit

  E bit, this bit describes the way AS-external LSAs are flooded

- ospfv3-lsa-v6-bit

  V6 bit, if clear, the router/link should be excluded from IPv6 routing calculation

Configurable False

Platforms Supported on all platforms

metric *number*

Description AS Boundary Router (ASBR) Metric.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-inter-area-router-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

ospfv3-intra-area-prefix-lsa

Description	Enter the ospfv3-intra-area-prefix-lsa context Intra-Area-Prefix LSA.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa
Tree	ospfv3-intra-area-prefix-lsa
Configurable	False
Platforms	Supported on all platforms

num-of-prefixes *number*

Description	Number of prefixes.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa num-of-prefixes *number*
Tree	num-of-prefixes
Configurable	False
Platforms	Supported on all platforms

prefixes prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of prefixes in this LSA.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefixes
Configurable	False
Platforms	Supported on all platforms

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prefix *(ipv4-prefix | ipv6-prefix)*

Description	LSA Prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	Prefix Metric.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

prefix-options

Description	Enter the prefix-options context Prefix options.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)* prefix-options
Tree	prefix-options
Configurable	False
Platforms	Supported on all platforms

prefix-options *identityref*

Description	OSPFv3 prefix option flag list. This list will contain the identities for the OSPFv3 options that are set for the OSPFv3 prefix.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string*

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link-state-id *string* ospfv3-intra-area-prefix-lsa prefixes prefix *(ipv4-prefix | ipv6-prefix)* prefix-options prefix-options *identityref*

Tree prefix-options

Options

- ospfv3-prefix-nu-bit

  NU Bit, when set, the prefix should be excluded from IPv6 unicast calculations.

- ospfv3-prefix-la-bit

  LA bit, when set, the prefix is actually an IPv6 interface address of the Advertising Router.

- ospfv3-prefix-p-bit

  P bit, when set, the NSSA area prefix should be translated to an AS External LSA and advertised by the translating NSSA Border Router.

- ospfv3-prefix-dn-bit

  DN bit, when set, the inter-area-prefix LSA or AS-external LSA prefix has been advertised as an L3VPN prefix.

Configurable False

Platforms Supported on all platforms

referenced-adv-router

Description Referenced Advertising Router.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa referenced-adv-router

Tree referenced-adv-router

Configurable False

Platforms Supported on all platforms

referenced-link-state-id *number*

Description Referenced Link State ID.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa referenced-link-state-id *number*

Tree referenced-link-state-id

Configurable False

Platforms Supported on all platforms

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referenced-ls-type *identityref*

Description Referenced Link State type.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa referenced-ls-type *identityref*

Tree referenced-ls-type

Options

- ospfv3-router-lsa
- ospfv3-network-lsa
- ospfv3-inter-area-prefix-lsa
- ospfv3-inter-area-router-lsa
- ospfv3-as-external-lsa
- ospfv3-nssa-as-external-lsa
- ospfv3-link-lsa
- ospfv3-intra-area-prefix-lsa
- ospfv3-router-information-lsa

Configurable False

Platforms Supported on all platforms

unknown-referenced-ls-type *number*

Description Value for an unknown Referenced Link State type.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-intra-area-prefix-lsa unknown-referenced-ls-type *number*

Tree unknown-referenced-ls-type

Configurable False

Platforms Supported on all platforms

ospfv3-network-lsa

Description Enter the ospfv3-network-lsa context

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-network-lsa

Tree ospfv3-network-lsa

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Configurable	False
Platforms	Supported on all platforms

attached-routers

Description	Enter the attached-routers context All attached routers.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-network-lsa attached-routers
Tree	attached-routers
Configurable	False
Platforms	Supported on all platforms

attached-router

Description	List of the routers attached to the network.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-network-lsa attached-routers attached-router
Tree	attached-router
Configurable	False
Platforms	Supported on all platforms

lsa-options

Description	Enter the lsa-options context OSPFv3 LSA options.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-network-lsa lsa-options
Tree	lsa-options
Configurable	False
Platforms	Supported on all platforms

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lsa-options *identityref*

Description OSPFv3 LSA Option flags list. This list will contain the identities for the OSPFv3 LSA options that are set for the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-network-lsa lsa-options lsa-options *identityref*

Tree lsa-options

Options

- ospfv3-lsa-af-bit

  AF bit, when set, the router supports OSPFv3 Address Families as in RFC5838.

- ospfv3-lsa-dc-bit

  DC bit, when set, the router supports demand circuits.

- ospfv3-lsa-r-bit

  R bit, when set, the originator is an active router.

- ospfv3-lsa-n-bit

  N bit, when set, the router is attached to an NSSA

- ospfv3-lsa-e-bit

  E bit, this bit describes the way AS-external LSAs are flooded

- ospfv3-lsa-v6-bit

  V6 bit, if clear, the router/link should be excluded from IPv6 routing calculation

Configurable False

Platforms Supported on all platforms

ospfv3-router-lsa

Description Enter the ospfv3-router-lsa context

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa

Tree ospfv3-router-lsa

Configurable False

Platforms Supported on all platforms

flags *number*

Description Router-LSA flag values

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa flags *number*
Tree	flags
Configurable	False
Platforms	Supported on all platforms

link interface-id *number*

Description	Router LSA link.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number*
Tree	link
Configurable	False
Platforms	Supported on all platforms

interface-id *number*

Description	Interface ID for link.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number*
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	Link Metric.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

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neighbor-interface-id *number*

Description Neighbor's Interface ID for link.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number* neighbor-interface-id *number*

Tree neighbor-interface-id

Configurable False

Platforms Supported on all platforms

neighbor-router-id

Description Neighbor's Router ID for link.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number* neighbor-router-id

Tree neighbor-router-id

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The sub-type of the Router LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa link interface-id *number* type *identityref*

Tree type

Options

- router-lsa-p2p

  The LSA represents a point-to-point connection to another router
- router-lsa-transit-network

  The LSA represents a connection to a transit network
- router-lsa-stub-network

  The LSA represents a connection to a stub network
- router-lsa-virtual-link

  The LSA represents a virtual link connection

Configurable False

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Platforms Supported on all platforms

lsa-options

Description Enter the lsa-options context

OSPFv3 LSA options.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa lsa-options

Tree lsa-options

Configurable False

Platforms Supported on all platforms

lsa-options *identityref*

Description OSPFv3 LSA Option flags list. This list will contain the identities for the OSPFv3 LSA options that are set for the LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-router-lsa lsa-options lsa-options *identityref*

Tree lsa-options

Options

- ospfv3-lsa-af-bit

  AF bit, when set, the router supports OSPFv3 Address Families as in RFC5838.
- ospfv3-lsa-dc-bit

  DC bit, when set, the router supports demand circuits.
- ospfv3-lsa-r-bit

  R bit, when set, the originator is an active router.
- ospfv3-lsa-n-bit

  N bit, when set, the router is attached to an NSSA
- ospfv3-lsa-e-bit

  E bit, this bit describes the way AS-external LSAs are flooded
- ospfv3-lsa-v6-bit

  V6 bit, if clear, the router/link should be excluded from IPv6 routing calculation

Configurable False

Platforms Supported on all platforms

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router-lsa

Description Enter the router-lsa context

Contents of the router LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa

Tree router-lsa

Configurable False

Platforms Supported on all platforms

flags *number*

Description Router-LSA flag values

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa flags *number*

Tree flags

Configurable False

Platforms Supported on all platforms

links link-id *string*

Description Enter the links list instance

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string*

Tree links

Configurable False

Platforms Supported on all platforms

link-id *string*

Description The identifier for the link specified. The value of the link identifier is dependent upon the type of the LSA. The value is specified to be, per sub-type: 1) Neighbouring router's router ID. 2) IP address of DR. 3) IP network address. 4) Neighbouring router router's ID.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string*
Configurable	False
Platforms	Supported on all platforms

link-data *number*

Description	The data associated with the link type. The value is dependent upon the subtype of the LSA. When the connection is to a stub network it represents the mask; for p2p connections that are unnumbered it represents the ifIndex value of the router's interface; for all other connections it represents the local system's IP address
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* link-data *number*
Tree	link-data
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The cost of utilising the link specified independent of TOS
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

number-tos-metrics *number*

Description	The number of different TOS metrics given for this link, not including the link metric (which is referred to as TOS 0).
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* number-tos-metrics *number*
Tree	number-tos-metrics
Configurable	False
Platforms	Supported on all platforms

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type *identityref*

Description The sub-type of the Router LSA.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* type *identityref*

Tree type

Options

- router-lsa-p2p

  The LSA represents a point-to-point connection to another router
- router-lsa-transit-network

  The LSA represents a connection to a transit network
- router-lsa-stub-network

  The LSA represents a connection to a stub network
- router-lsa-virtual-link

  The LSA represents a virtual link connection

Configurable False

Platforms Supported on all platforms

types-of-service

Description Enter the types-of-service context

Breakdown of LSA contents specifying multiple TOS values

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* types-of-service

Tree types-of-service

Configurable False

Platforms Supported on all platforms

type-of-service tos *number*

Description Per-type of service parameters for the LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* types-of-service type-of-service tos *number*

Tree type-of-service

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Configurable False

Platforms Supported on all platforms

tos *number*

Description OSPF encoding of the type of service referred to by this LSA. Encoding for OSPF TOS are described in RFC2328.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* types-of-service type-of-service tos *number*

Configurable False

Platforms Supported on all platforms

metric *number*

Description The metric value to be used for the TOS specified. This value represents the cost of use of the link for the specific type of service.

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa links link-id *string* types-of-service type-of-service tos *number* metric *number*

Tree metric

Configurable False

Platforms Supported on all platforms

number-links *number*

Description The number of links that are described within the LSA

Context network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* router-lsa number-links *number*

Tree number-links

Configurable False

Platforms Supported on all platforms

sequence-number *string*

Description A signed 32-bit integer used to detect old and duplicate LSAs. The greater the sequence number the more recent the LSA.

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Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* sequence-number *string*
Tree	sequence-number
Configurable	False
Platforms	Supported on all platforms

summary-lsa

Description	Enter the summary-lsa context Contents of the summary LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa
Tree	summary-lsa
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The cost of utilising this network specified independent of TOS
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

network-mask *number*

Description	The mask of the network described by the Summary LSA represented as a CIDR mask.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa network-mask *number*
Tree	network-mask
Range	0 to 32
Configurable	False

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Platforms	Supported on all platforms

types-of-service

Description	Enter the types-of-service context Breakdown of LSA contents specifying multiple TOS values
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa types-of-service
Tree	types-of-service
Configurable	False
Platforms	Supported on all platforms

type-of-service tos *number*

Description	Per-type of service parameters for the LSA
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa types-of-service type-of-service tos *number*
Tree	type-of-service
Configurable	False
Platforms	Supported on all platforms

tos *number*

Description	OSPF encoding of the type of service referred to by this LSA. Encoding for OSPF TOS are described in RFC2328.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* summary-lsa types-of-service type-of-service tos *number*
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The metric value to be used for the TOS specified. This value represents the cost of use of the link for the specific type of service.
Context	network-instance name *string* protocols ospf instance name *string* area area-id lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string*

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link-state-id *string* summary-lsa types-of-service type-of-service tos *number* metric *number*

Tree metric

Configurable False

Platforms Supported on all platforms

nssa

Description This command creates the context to configure the associated OSPF or OSPF3 area as Not So Stubby Area (NSSA).

NSSAs are similar to stub areas in that no external routes are imported into the area from other OSPF areas. The major difference between a stub area and an NSSA is an NSSA has the capability to flood external routes that it learns throughout its area and via an ABR to the entire OSPF or OSPF3 domain.

Context network-instance name *string* protocols ospf instance name *string* area area-id nssa

Tree nssa

Configurable True

Platforms Supported on all platforms

area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Description Enter the area-range context

Context network-instance name *string* protocols ospf instance name *string* area area-id nssa area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Tree area-range

Configurable True

Platforms Supported on all platforms

ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Description ip-prefix with host bits set to 0

Context network-instance name *string* protocols ospf instance name *string* area area-id nssa area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)*

Configurable True

Platforms Supported on all platforms

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advertise *boolean*

Description	Advertise summarized range of addresses to other areas
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa area-range ip-prefix-mask *(ipv4-prefix-unicast | ipv6-prefix-unicast-without-local)* advertise *boolean*
Tree	advertise
Default	true
Configurable	True
Platforms	Supported on all platforms

originate-default-route

Description	Enter the originate-default-route context
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa originate-default-route
Tree	originate-default-route
Configurable	True
Platforms	Supported on all platforms

adjacency-check *boolean*

Description	Default route to remove if there is no adjacency
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa originate-default-route adjacency-check *boolean*
Tree	adjacency-check
Default	true
Configurable	True
Platforms	Supported on all platforms

type-nssa *boolean*

Description	Generate a default route using NSSA-LSA type
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa originate-default-route type-nssa *boolean*
Tree	type-nssa
Default	false

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Configurable	True
Platforms	Supported on all platforms

redistribute-external *boolean*

Description	Enables the redistribution of external routes into the Not So Stubby Area (NSSA) or an NSSA area border router (ABR) that is exporting the routes into non-NSSA areas
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa redistribute-external *boolean*
Tree	redistribute-external
Default	true
Configurable	True
Platforms	Supported on all platforms

summaries *boolean*

Description	Enables sending summary (type 3) advertisements into a stub area or Not So Stubby Area (NSSA) on an Area Border Router (ABR)
Context	network-instance name *string* protocols ospf instance name *string* area area-id nssa summaries *boolean*
Tree	summaries
Default	true
Configurable	True
Platforms	Supported on all platforms

stub

Description	Enable the stub context
Context	network-instance name *string* protocols ospf instance name *string* area area-id stub
Tree	stub
Configurable	True
Platforms	Supported on all platforms

default-metric *number*

Description	Defines the default OSPF metric for associated stub area

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Context	network-instance name *string* protocols ospf instance name *string* area area-id stub default-metric *number*
Tree	default-metric
Range	1 to 65535
Default	1
Configurable	True
Platforms	Supported on all platforms

summaries *boolean*

Description	Enables sending summary (type 3) advertisements into a stub area or Not So Stubby Area (NSSA) on an Area Border Router (ABR)
Context	network-instance name *string* protocols ospf instance name *string* area area-id stub summaries *boolean*
Tree	summaries
Default	true
Configurable	True
Platforms	Supported on all platforms

area-border-router *boolean*

Description	This indicates whether this router is an area border router.
Context	network-instance name *string* protocols ospf instance name *string* area-border-router *boolean*
Tree	area-border-router
Configurable	False
Platforms	Supported on all platforms

as-border-router *boolean*

Description	This indicates whether this router is an AS border router.
Context	network-instance name *string* protocols ospf instance name *string* as-border-router *boolean*
Tree	as-border-router
Configurable	False
Platforms	Supported on all platforms

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asbr

Description	Configure the router as an ASBR (Autonomous System Boundary Router). On ip-vrf network-instances the OSPF instance is always an ASBR regardless of whether this container is configured; presence and absence have no effect on the effective AS-border-router status, which is reported via the read-only as-border-router state leaf. Sub-leaves such as trace-path remain effective when configured.
Context	network-instance name *string* protocols ospf instance name *string* asbr
Tree	asbr
Configurable	True
Platforms	Supported on all platforms

trace-path *(number | keyword)*

Description	Domain identity
Context	network-instance name *string* protocols ospf instance name *string* asbr trace-path *(number | keyword)*
Tree	trace-path
Range	0 to 31
Default	none
Options	• none
Configurable	True
Platforms	Supported on all platforms

backbone-router *boolean*

Description	This indicates whether or not this router is configured as an OSPF back bone router.
Context	network-instance name *string* protocols ospf instance name *string* backbone-router *boolean*
Tree	backbone-router
Configurable	False
Platforms	Supported on all platforms

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export-limit

Description	Enter the export-limit context
Context	network-instance name *string* protocols ospf instance name *string* export-limit
Tree	export-limit
Configurable	True
Platforms	Supported on all platforms

log-percent *number*

Description	Export limit at which warning a log message and SNMP notification are sent
Context	network-instance name *string* protocols ospf instance name *string* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Configurable	True
Platforms	Supported on all platforms

number *number*

Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Context	network-instance name *string* protocols ospf instance name *string* export-limit number *number*
Tree	number
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	Apply an export policy to redistribute routes into OSPF
Context	network-instance name *string* protocols ospf instance name *string* export-policy *reference*
Tree	export-policy
Reference	routing-policy policy name *string*

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Configurable	True
Platforms	Supported on all platforms

extern-lsa-cksum-sum *string*

Description	the value of extern-lsa-cksum-sum indicates the 32-bit unsigned sum of the LS checksums of the external link-state advertisements contained in the link-state database. This sum can be used to determine if there has been a change in a router's link state database, and to compare the link-state database of two routers.
Context	network-instance name *string* protocols ospf instance name *string* extern-lsa-cksum-sum *string*
Tree	extern-lsa-cksum-sum
Configurable	False
Platforms	Supported on all platforms

extern-lsa-count

Description	the value of extern-lsa-count indicates the number of external LS-as (LS type 0x4005) in the link-state database
Context	network-instance name *string* protocols ospf instance name *string* extern-lsa-count
Tree	extern-lsa-count
Configurable	False
Platforms	Supported on all platforms

external-db-overflow

Description	Enable the external-db-overflow context
Context	network-instance name *string* protocols ospf instance name *string* external-db-overflow
Tree	external-db-overflow
Configurable	True
Platforms	Supported on all platforms

interval *number*

Description	Enter the interval context

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Context	network-instance name *string* protocols ospf instance name *string* external-db-overflow interval *number*
Tree	interval
Range	0 to 2147483647
Default	0
Units	seconds
Configurable	True
Platforms	Supported on all platforms

limit *number*

Description	Enter the limit context
Context	network-instance name *string* protocols ospf instance name *string* external-db-overflow limit *number*
Tree	limit
Range	0 to 2147483647
Default	0
Configurable	True
Platforms	Supported on all platforms

external-preference *number*

Description	Configure the route preference associated with OSPF external routes
Context	network-instance name *string* protocols ospf instance name *string* external-preference *number*
Tree	external-preference
Default	150
Configurable	True
Platforms	Supported on all platforms

graceful-restart

Description	Enter the graceful-restart context Container for options related to OSPF graceful restart
Context	network-instance name *string* protocols ospf instance name *string* graceful-restart
Tree	graceful-restart

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Configurable	True
Platforms	Supported on all platforms

helper-mode *boolean*

Description	Enable or disable the OSPF graceful restart helper function When this leaf is set, the local system supports retaining forwarding information during a neighbor router's restart.
Context	network-instance name *string* protocols ospf instance name *string* graceful-restart helper-mode *boolean*
Tree	helper-mode
Default	false
Configurable	True
Platforms	Supported on all platforms

strict-lsa-checking *boolean*

Description	Enter the strict-lsa-checking context
Context	network-instance name *string* protocols ospf instance name *string* graceful-restart strict-lsa-checking *boolean*
Tree	strict-lsa-checking
Default	false
Configurable	True
Platforms	Supported on all platforms

ignore-dn-bit *boolean*

Description	In an ip-vrf (VPRN), when true, this OSPF instance ignores the Down (DN) bit on received LSAs when installing or using routes. Applies to both OSPFv2 (Type 3 summary, Type 5 / Type 7 external LSA options DN bit, RFC 4576) and OSPFv3 (prefix-options DN bit on inter-area-prefix and AS-external LSAs, RFC 6565); the SR Linux model intentionally exposes a single version-agnostic knob because the underlying behaviour is identical at the redistribute / SPF boundary. In the default network-instance, the DN bit is not used by the protocol stack for PE-CE loop prevention, so this leaf is a no-op there and is constrained to false by a must statement.
Context	network-instance name *string* protocols ospf instance name *string* ignore-dn-bit *boolean*
Tree	ignore-dn-bit

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Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-id *number*

Description	The OSPF multi instance identity as defined in RFC6549 or RFC5838. Supported values are: For OSPFv2 it is between 0 and 31, default is 0. For OSPFv3 address-family ipv6-unicast it is between 0 and 31, default is 0. For OSPFv3 address-family ipv4-unicast it is between 64 and 95, default is 64.
Context	network-instance name *string* protocols ospf instance name *string* instance-id *number*
Tree	instance-id
Range	0 to 255
Configurable	True
Platforms	Supported on all platforms

last-disabled-reason *string*

Description	Reason why the disabled state was entered the last time.
Context	network-instance name *string* protocols ospf instance name *string* last-disabled-reason *string*
Tree	last-disabled-reason
String Length	0 to 20
Configurable	False
Platforms	Supported on all platforms

last-enabled-time *string*

Description	the value of last-enabled-time indicates the value of sys-up-time when admin-state was last set to 'enabled'. when admin-state is set to 'disabled', the OSPF counters are stopped when admin-state is reset to 'enabled', the counters are reset to zero.

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Context	network-instance name *string* protocols ospf instance name *string* last-enabled-time *string*
Tree	last-enabled-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-overflow-entered-time *string*

Description	The value of last-ovrflw-entered-time indicates the value of sys-up-time the last time we entered overflow state. this overflow state occurs when the number of non-default AS-external-LS-as entries exceed the link-state database capability.
Context	network-instance name *string* protocols ospf instance name *string* last-overflow-entered-time *string*
Tree	last-overflow-entered-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-overflow-exit-time *string*

Description	the value of last-overflow-exit-time indicates the value of sys-up-time the last time we exited overflow state. this overflow state occurs when the number of non-default AS-external-LS-as entries exceed the link-state database capability.
Context	network-instance name *string* protocols ospf instance name *string* last-overflow-exit-time *string*
Tree	last-overflow-exit-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-overload-enter-code *keyword*

Description	the value of last-overload-enter-code indicates the condition which caused OSPF to get into overload.
Context	network-instance name *string* protocols ospf instance name *string* last-overload-enter-code *keyword*

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Tree last-overload-enter-code

Options
- none
- spf-failed
- boot-overload
- manual-overload
- sfm-overload
- fib-add-fail
- rtm-add-fail
- rtr-adv-lsa-limit

Configurable False

Platforms Supported on all platforms

last-overload-entered-time *string*

Description the value of last-overload-entrd-time indicates the time at which the system last went into overload state.

Context network-instance name *string* protocols ospf instance name *string* last-overload-entered-time *string*

Tree last-overload-entered-time

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-overload-exit-code *keyword*

Description the value of last-overload-exit-code indicates the reason why OSPF came out of overload state the last time, since reset.

Context network-instance name *string* protocols ospf instance name *string* last-overload-exit-code *keyword*

Tree last-overload-exit-code

Options
- none
- bgp-sig-recv
- timer-expired
- manual-exit
- sfm-overload-done

Configurable False

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Platforms	Supported on all platforms

last-overload-exit-time *string*

Description	the value of last-overload-exit-time indicates the time at which the system last came out of overload state.
Context	network-instance name *string* protocols ospf instance name *string* last-overload-exit-time *string*
Tree	last-overload-exit-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

ldp-synchronization

Description	Enable LDP-IGP synchronization procedures on all P2P interfaces and all LAN interfaces with a single adjancency, except on interfaces where the functionality is explicitly disabled
Context	network-instance name *string* protocols ospf instance name *string* ldp-synchronization
Tree	ldp-synchronization
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-of-lib *boolean*

Description	When set to true, the IGP restores the normal metric for the IGP adjacency when learning from LDP that all label-FEC mappings have been received from the LDP peer, even if there is remaining time on the hold-down-timer. When set to false, the IGP always waits for the full duration of the hold-down-timer to restore the normal metric for the IGP adjacency
Context	network-instance name *string* protocols ospf instance name *string* ldp-synchronization end-of-lib *boolean*
Tree	end-of-lib
Default	false
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description	The maximum amount of time that the IGP advertises a maximum metric for an interface, measured from the time that the LDP adjacency is re-established after going down
Context	network-instance name *string* protocols ospf instance name *string* ldp-synchronization hold-down-timer *number*
Tree	hold-down-timer
Range	1 to 1800
Default	60
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopfree-alternate

Description	Enter the loopfree-alternate context Loopfree-alternate related context for the instance.
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate
Tree	loopfree-alternate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set, loopfree-alternate protection is enabled for the OSPF instance. Enables ability to seek for LFA, doesn't guarantee LFA protection.
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate admin-state *keyword*
Tree	admin-state

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Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

augment-route-table *boolean*

Description	Extend remote LFA next-hop resolution path entry to RTM such that tunnel can be used in SPF decisions
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate augment-route-table *boolean*
Tree	augment-route-table
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude

Description	Enter the exclude context Set the exclude context for LFA SPF computation
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate exclude
Tree	exclude
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-policy *reference*

Description	Policy to exclude prefixes from LFA SPF calculation
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate exclude prefix-policy *reference*

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Tree	prefix-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

remote-lfa

Description	Enter the remote-lfa context Remote LFA context
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa
Tree	remote-lfa
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set, remote lfa protection is enabled for the OSPF instance. Enables ability to seek for an eligible remote-LFA node (P,Q intersection), doesn't guarantee existance of remote-LFA protection.
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-pq-cost *number*

Description Maximum cost of destination node during reverse SPF calculation

Context network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa max-pq-cost *number*

Tree max-pq-cost

Default 65535

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-protect

Description Enter the node-protect context

Node protect context

Context network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa node-protect

Tree node-protect

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description When set, the OSPF instance enables node protection using remote lfa. Remote LFA seeks for a viable P,Q intersection that can protect against node failures.

Context network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa node-protect admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-pq-nodes *number*

Description	Maximum number of PQ nodes found in the LFA SPFs. Value 0 disables node protect
Context	network-instance name *string* protocols ospf instance name *string* loopfree-alternate remote-lfa node-protect max-pq-nodes *number*
Tree	max-pq-nodes
Range	0 to 32
Default	16
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsa-totals

Description	Enter the lsa-totals context The number of LSAs of each type in this instance's AS database
Context	network-instance name *string* protocols ospf instance name *string* lsa-totals
Tree	lsa-totals
Configurable	False
Platforms	Supported on all platforms

as-external-lsa

Description	The number of AS External LSAs in this instance's AS database.
Context	network-instance name *string* protocols ospf instance name *string* lsa-totals as-external-lsa
Tree	as-external-lsa
Configurable	False
Platforms	Supported on all platforms

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as-opaque-lsa

Description	The number of AS opaque LSAs in this instance's AS database.
Context	network-instance name *string* protocols ospf instance name *string* lsa-totals as-opaque-lsa
Tree	as-opaque-lsa
Configurable	False
Platforms	Supported on all platforms

e-as-external-lsa

Description	The number of extended AS External LSAs in this instance's AS database.
Context	network-instance name *string* protocols ospf instance name *string* lsa-totals e-as-external-lsa
Tree	e-as-external-lsa
Configurable	False
Platforms	Supported on all platforms

router-info-lsa

Description	The number of AS scoped router information LSAs in this instance's AS database.
Context	network-instance name *string* protocols ospf instance name *string* lsa-totals router-info-lsa
Tree	router-info-lsa
Configurable	False
Platforms	Supported on all platforms

lsdb

Description	Enter the lsdb context The link-state database for the OSPF AS
Context	network-instance name *string* protocols ospf instance name *string* lsdb
Tree	lsdb
Configurable	False
Platforms	Supported on all platforms

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lsa-types

Description Enter the lsa-types context

Enclosing container for a list of LSA types that are in the LSDB for the specified AS

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types

Tree lsa-types

Configurable False

Platforms Supported on all platforms

lsa-type type *identityref*

Description List of LSA types in the LSDB for the AS

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref*

Tree lsa-type

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of LSA being described. The type of the LSA is expressed as a canonical name.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref*

Options

- router-lsa

  Type 1 - router-lsa. An LSA originated by each router within the area describing the state and cost of the router's links in the area.

- network-lsa

  Type 2 - network-lsa. An LSA originated for each broadcast and non-broadcast multiple access (NBMA) in the area. This LSA is originated by the designated router.

- summary-ip-network-lsa

  Type 3 - summary-ip-network-lsa. An LSA originated by area border routers describing inter-area destinations. This LSA type is used when the destination is an IP network

- summary-asbr-lsa

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Type 4 - summary-asbr-lsa. An LSA originated by an area border router describing inter-area destinations. This LSA type is used when the destination is an AS boundary router.

- as-external-lsa

  Type 5 - as-external-lsa. This LSA type is used to describe destinations external to the autonomous system, and is originated by an AS boundary router (ASBR).

- nssa-as-external-lsa

  Type 7 - nssa-as-external-lsa. This LSA type is used by systems within a not-so-stubby-area (NSSA) to inject external prefixes into the LSDB. They are translated to Type 5 LSAs at an ABR device.

- ospfv2-link-scope-opaque-lsa

  Type 9 - ospfv2-link-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 9 have a scope of the link that they are being transmitted on (and the associated network or subnetwork).

- ospfv2-area-scope-opaque-lsa

  Type 10 - ospfv2-area-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 10 have a scope of the area that they are transmitted within.

- ospfv2-as-scope-opaque-lsa

  Type 11 - ospfv2-as-scope-opaque-lsa. This LSA type is used in OSPFv2 to distribute arbitrary information via the OSPF protocol. The contents is specific to the application defining the Opaque Type specified within the LSDB. LSAs with Type 11 have a scope of the autonomous system that they are transmitted within.

- ospfv3-lsa-type

Configurable False

Platforms Supported on all platforms

lsas

Description Enter the lsas context

Enclosing container for a list of the LSAs of the specified type received by the system

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas

Tree lsas

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Configurable	False
Platforms	Supported on all platforms

lsa advertising-router *string* link-state-id *string*

Description	List of the LSAs of a specified type in the LSDB for the specified AS
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Tree	lsa
Configurable	False
Platforms	Supported on all platforms

advertising-router *string*

Description	The router ID of the router that originated the LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

link-state-id *string*

Description	The Link State ID for the specified LSA type. The exact defined value of the Link State ID is dependent on the LSA type.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string*
Configurable	False
Platforms	Supported on all platforms

advertisement *string*

Description	Contents of the link state advertisement in hex, including the header.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* advertisement *string*
Tree	advertisement

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Configurable	False
Platforms	Supported on all platforms

age *number*

Description	The time since the LSA's generation in seconds
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* age *number*
Tree	age
Units	seconds
Configurable	False
Platforms	Supported on all platforms

as-external-lsa

Description	Enter the as-external-lsa context Contents of the AS External LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa
Tree	as-external-lsa
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	An opaque tag that set by the LSA originator to carry information relating to the external route
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

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forwarding-address *string*

Description	The destination to which traffic for the external prefix should be advertised. When this value is set to 0.0.0.0 then traffic should be forwarded to the LSA's originator
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa forwarding-address *string*
Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

mask *number*

Description	The subnet mask for the advertised destination
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa mask *number*
Tree	mask
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The cost to reach the external network specified. The exact interpretation of this cost is dependent on the type of metric specified
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

metric-type *keyword*

Description	The type of metric included within the AS External LSA.

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Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa metric-type *keyword*
Tree	metric-type
Options	• TYPE_1 When the metric of a prefix is specified as Type 1 then it is considered to be expressed in the same units as the link-state metrics carried in OSPF. That is to say that the metric advertised is directly compared to the internal cost • TYPE_2 When the metric of a prefix is specified as Type 2 then it is considered to be expressed as a cost in addition to that of the link-state metric to the advertising router. That is to say that the metric is considered to be the cost to the advertising router plus the advertised metric for the external entity
Configurable	False
Platforms	Supported on all platforms

types-of-service

Description	Enter the types-of-service context Breakdown of External LSA contents specifying multiple TOS values
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service
Tree	types-of-service
Configurable	False
Platforms	Supported on all platforms

type-of-service tos *number*

Description	Per-type of service parameters for the AS External LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service type-of-service tos *number*
Tree	type-of-service
Configurable	False
Platforms	Supported on all platforms

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tos *number*

Description	OSPF encoding of the type of service referred to by this LSA. Encoding for OSPF TOS are described in RFC2328.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service type-of-service tos *number*
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	An opaque tag that set by the LSA originator to carry information relating to the external route
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service type-of-service tos *number* external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

forwarding-address *string*

Description	The destination to which traffic for the external prefix should be advertised. When this value is set to 0.0.0.0 then traffic should be forwarded to the LSA's originator
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service type-of-service tos *number* forwarding-address *string*
Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The metric value to be used for the TOS specified. This value represents the cost of use of the link for the specific type of service.

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Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* as-external-lsa types-of-service type-of-service tos *number* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

checksum *string*

Description	The checksum of the complete contents of the LSA excluding the age field.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* checksum *string*
Tree	checksum
Configurable	False
Platforms	Supported on all platforms

opaque-lsa

Description	Enter the opaque-lsa context Contents of the opaque LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa
Tree	opaque-lsa
Configurable	False
Platforms	Supported on all platforms

extended-link

Description	Enter the extended-link context The OSPFv2 Extended Link Opaque LSA, used to encapsulate TLV attributes associated with a link advertised in OSPF.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link
Tree	extended-link

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Configurable	False
Platforms	Supported on all platforms

link-data *number*

Description	The data associated with the link type. The value is dependent upon the subtype of the LSA. When the connection is to a stub network it represents the mask; for p2p connections that are unnumbered it represents the ifIndex value of the router's interface; for all other connections it represents the local system's IP address
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-data *number*
Tree	link-data
Configurable	False
Platforms	Supported on all platforms

link-id *string*

Description	The identifier for the link specified. The value of the link identifier is dependent upon the type of the LSA. The value is specified to be, per sub-type: 1) Neighbouring router's router ID. 2) IP address of DR. 3) IP network address. 4) Neighbouring router router's ID.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-id *string*
Tree	link-id
Configurable	False
Platforms	Supported on all platforms

link-type *identityref*

Description	The type of link with which extended attributes are associated
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link link-type *identityref*
Tree	link-type
Options	• point-to-point-link The link is a point-to-point connection to another router • transit-network-link

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The link is a connection to a transit network

- stub-network-link

  The link is a connection to a stub network

- virtual-link

  The link is a virtual connection to another router

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description List of TLVs within the Extended Link LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV contained within the extended link TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv type *identityref*

Tree type

Options

- adjacency-sid

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The extended link sub-TLV indicates an Adjacency SID

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

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value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The sub-type of the Router LSA.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-link type *identityref*

Tree type

Options

- router-lsa-p2p

  The LSA represents a point-to-point connection to another router
- router-lsa-transit-network

  The LSA represents a connection to a transit network
- router-lsa-stub-network

  The LSA represents a connection to a stub network
- router-lsa-virtual-link

  The LSA represents a virtual link connection

Configurable False

Platforms Supported on all platforms

extended-prefix

Description Enter the extended-prefix context

An OSPFv2 Extended Prefix Opaque LSA, used to encapsulate TLV attributes associated with a prefix advertised in OSPF.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix

Tree extended-prefix

Configurable False

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Platforms Supported on all platforms

address-family *keyword*

Description The address family of the prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix address-family *keyword*

Tree address-family

Options

- IPV4_UNICAST

  The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix

Configurable False

Platforms Supported on all platforms

attached *boolean*

Description If this value is set to true, the prefix being advertised was generated by an ABR for an inter-area prefix. The value corresponds to the A-flag of the flags field of the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix attached *boolean*

Tree attached

Default false

Configurable False

Platforms Supported on all platforms

node *boolean*

Description If this value is set to true, the prefix being advertised represents the advertising router. Typically, the prefix within the LSA is expected to be globally-reachable prefix associated with a loopback interface

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix node *boolean*

Tree node

Default false

Configurable False

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Platforms Supported on all platforms

prefix *string*

Description The IPv4 prefix contained within the extended prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix *string*

Tree prefix

Configurable False

Platforms Supported on all platforms

prefix-length *number*

Description The length of the IPv4 prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix prefix-length *number*

Tree prefix-length

Range 0 to 32

Configurable False

Platforms Supported on all platforms

route-type *keyword*

Description The type of prefix that is contained within the Extended Prefix LSA. The information contained in sub-TLVs of the attribute is applicable regardless of this value.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix route-type *keyword*

Tree route-type

Options

- UNSPECIFIED

  The prefix described in the extended prefix LSA is of an unspecified type
- INTRA_AREA

  The prefix described in the extended prefix LSA is an intra-area prefix for the advertising system
- INTER_AREA

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The prefix described in the extended prefix LSA is an inter-area prefix for the advertising system

- AS_EXTERNAL

  The prefix described in the extended prefix LSA is external to the autonomous system of the advertising system

- NSSA_EXTERNAL

  The prefix described in the extended prefix LSA externally advertised from an NSSA area visibile to the advertising system

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

TLVs contained within the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description A TLV contained within the extended prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

extended-prefix-range

Description Enter the extended-prefix-range context

State parameters relating to the extended prefix range sub-TLV of the extended prefix LSA

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Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range

Tree extended-prefix-range

Configurable False

Platforms Supported on all platforms

address-family *keyword*

Description The address family of the prefix contained in the Extended Prefix LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range address-family *keyword*

Tree address-family

Options

- IPV4_UNICAST

  The prefix contained within the Extended Prefix LSA is an IPv4 unicast prefix

Configurable False

Platforms Supported on all platforms

inter-area *boolean*

Description When this leaf is set to true, then the prefix range is inter-area - the flag is set by the ABR that advertises the Extended Prefix Range TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range inter-area *boolean*

Tree inter-area

Default false

Configurable False

Platforms Supported on all platforms

prefix *string*

Description The first prefix in the range of prefixes being described by the extended prefix range sub-TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix *string*

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Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-length *number*

Description	The length of the IPv4 prefix contained in the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range prefix-length *number*
Tree	prefix-length
Range	0 to 32
Configurable	False
Platforms	Supported on all platforms

range-size *number*

Description	The number of prefixes that are covered by the advertisement.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv extended-prefix-range range-size *number*
Tree	range-size
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	The type of sub-TLV as indicated by the Extended Prefix LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv type *identityref*
Tree	type
Options	• extended-prefix-range The attributes being described relate to a range of prefixes • prefix-sid The TLV describes a Segment Routing Prefix Segment Identifier associated with a prefix

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- sid-label-binding

  The TLV describes a binding of a SID to a path to the prefix, which may have associated path characteristics

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

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value *binary*

Description	The value portion of the unknwon TLV
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa extended-prefix tlvs tlv unknown-tlv value *binary*
Tree	value
Configurable	False
Platforms	Supported on all platforms

grace-lsa

Description	Enter the grace-lsa context The Grace LSA is utilised when a remote system is undergoing graceful restart
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa
Tree	grace-lsa
Configurable	False
Platforms	Supported on all platforms

tlvs

Description	Enter the tlvs context TLVs of the Grace LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs
Tree	tlvs
Configurable	False
Platforms	Supported on all platforms

tlv

Description	TLV entry in the Grace LSA, advertised by a system undergoing graceful restart

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Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv
Tree	tlv
Configurable	False
Platforms	Supported on all platforms

ip-interface-address *string*

Description	The restarting system's IP address on the interface via which the Grace LSA is being advertised.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv ip-interface-address *string*
Tree	ip-interface-address
Configurable	False
Platforms	Supported on all platforms

period *number*

Description	The number of seconds that the router's neighbors should advertise the local system as fully adjacent regardless of database synchronization state
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv period *number*
Tree	period
Units	seconds
Configurable	False
Platforms	Supported on all platforms

reason *keyword*

Description	The reason for the graceful restart event occurring, as advertised by the restarting system
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv reason *keyword*
Tree	reason
Options	• UNKNOWN

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The reason for the graceful restart is unknown

- SOFTWARE_RESTART

  The local system is restarting due to a software component restart

- SOFTWARE_RELOAD_UPGRADE

  The local system is restarting due to a software reload or upgrade

- CONTROL_PROCESSOR_SWITCH

  The local system is restarting due to a switch to a redundant control plane element

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of the sub-TLV received within the Grace LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv type *identityref*

Tree type

Options

- grace-period

  This sub-TLV describes the period for which adjacencies should be maintained with the restarting system

- grace-restart-reason

  This sub-TLV describes the reason for the OSPF restart of the system that is restarting

- grace-ip-interface-address

  This sub-TLV specifies the restarting system's IP address on the interface via which it is advertising the Grace LSA

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

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Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa grace-lsa tlvs tlv unknown-tlv value *binary*

Tree value

Configurable False

Platforms Supported on all platforms

router-information

Description Enter the router-information context

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The router information LSA is utilised to advertise capabilities of a system to other systems who receive the LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information

Tree router-information

Configurable False

Platforms Supported on all platforms

tlvs

Description Enter the tlvs context

The TLVs included within the Router Information LSA.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs

Tree tlvs

Configurable False

Platforms Supported on all platforms

tlv

Description TLV entry in the Router Information LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv

Tree tlv

Configurable False

Platforms Supported on all platforms

informational-capabilities

Description Enter the informational-capabilities context

Information related to the capabilities of the advertising router within the scope that the opaque RI LSA is being advertised

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities

Tree informational-capabilities

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Configurable	False
Platforms	Supported on all platforms

experimental-te *boolean*

Description	When this leaf is set to ture, the advertising system supports the experimental extensions to OSPF for TE described in RFC4973
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities experimental-te *boolean*
Tree	experimental-te
Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-capable *boolean*

Description	When this leaf is set to true, the advertising system is capable of OSPF graceful restart.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-capable *boolean*
Tree	graceful-restart-capable
Default	false
Configurable	False
Platforms	Supported on all platforms

graceful-restart-helper *boolean*

Description	When this leaf is set to true, the advertising system is capable of being a helper for OSPF graceful restart
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities graceful-restart-helper *boolean*
Tree	graceful-restart-helper
Default	false
Configurable	False
Platforms	Supported on all platforms

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point-to-point-over-lan *boolean*

Description	When this leaf is set to true, the advertising system supports treating LAN adjacencies as though they were point to point
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities point-to-point-over-lan *boolean*
Tree	point-to-point-over-lan
Default	false
Configurable	False
Platforms	Supported on all platforms

stub-router *boolean*

Description	When this leaf is set to true, the advertising system is able to advertise its status as a stub router
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv informational-capabilities stub-router *boolean*
Tree	stub-router
Default	false
Configurable	False
Platforms	Supported on all platforms

node-administrative-tags

Description	Enter the node-administrative-tags context Per-node administrative tags associated with the local system specified by the operator
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags
Tree	node-administrative-tags
Configurable	False
Platforms	Supported on all platforms

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administrative-tags *number*

Description	The set of administrative tags assigned to the local system by the network operator. The meaning of these tags is opaque to OSPF
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv node-administrative-tags administrative-tags *number*
Tree	administrative-tags
Configurable	False
Platforms	Supported on all platforms

type *(identityref | keyword)*

Description	The type of sub-TLV of the Router Information opaque LSA
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv type *(identityref | keyword)*
Tree	type
Options	• ri-informational-capabilities Informational capabilities of the advertising system • ri-functional-capabilities Functional capabilities of the advertising system • ri-node-admin-tag Operator-defined administrative tags associated with the advertising system • ri-sr-sid-label-range SID or Label ranges for use with segment routing when forwarding to the advertising system • ri-sr-algorithm The algorithms that are supported for segment routing by the advertising system
Options	• UNKNOWN The TLV received within the RI LSA is unknown
Configurable	False
Platforms	Supported on all platforms

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unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv length *number*

Tree length

Configurable False

Platforms Supported on all platforms

type *number*

Description The type value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv type *number*

Tree type

Configurable False

Platforms Supported on all platforms

value *binary*

Description The value portion of the unknwon TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa router-information tlvs tlv unknown-tlv value *binary*

Tree value

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Configurable False

Platforms Supported on all platforms

scope *keyword*

Description The scope of the opaque LSA. The type of the LSA indicates its scope - the value of this leaf determines both the flooding domain, and the type of the LSA.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa scope *keyword*

Tree scope

Options

- LINK

  The scope of the LSA is the current link. The LSA is not flooded beyond the local network. This enumeration denotes a Type 9 LSA.

- AREA

  The scope of the LSA is the local area. The LSA is not flooded beyond the area of origin. This enumeration denotes a Type 10 LSA.

- AS

  The scope of the LSA is the local autonomous system (AS). The flooding domain is the same as a Type 5 LSA - it is not flooded into stub areas or NSSAs. This enumeration denotes a Type 11 LSA.

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The Opaque Type of the LSA. This value is used to indicate the type of data carried by the opaque LSA

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa type *identityref*

Tree type

Options

- traffic-engineering

  The Traffic Engineering LSA. This type is used only with area-scope Opaque LSAs - and is used to describe routers, point-to-point links and connections to multi-access networks for traffic engineering purposes.

- grace-lsa

  Grace LSAs are announced by a system undergoing graceful-restart. A system that is attempting an OSPF graceful restart announces Grace-

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LSAs with a specified grace period, indicating the intention to have completed an restart within the specified period.

- router-information

  The Router Information LSA is used by an OSPFv2 system to announce optional capabilities of the local system, over and above those that are included within the OSPF hello message field. The flooding scope of the LSA can be link-, area-, or AS-wide (i.e., the LSA type can be 9, 10 or 11).

- ospfv2-extended-prefix

  The Extended Prefix LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a prefix that is advertised in OSPF. The attributes are carried as one or more TLV tuples. The flooding scope of the LSA can be link-, area-, or AS-wide as specified by the advertising system. The flooding scope of the LSA may exceed the scope of the corresponding prefix.

- ospfv2-extended-link

  The Extended Link LSA is used in OSPFv2 to carry a set of attributes that are to be associated with a link that is advertised in OSPF. The link attributes are carried as one or more TLV tuples. The flooding scope of the link LSA is area-local - i.e., it is carried in a Type 10 opaque LSA.

Configurable False

Platforms Supported on all platforms

unknown-tlv

Description Enter the unknown-tlv context

An unknown TLV within the context. Unknown TLVs are defined to be the set of TLVs that are not modelled within the OpenConfig model, or are unknown to the local system such that it cannot decode their value.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv

Tree unknown-tlv

Configurable False

Platforms Supported on all platforms

length *number*

Description The length value of the unknown TLV

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv length *number*

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Tree	length
Configurable	False
Platforms	Supported on all platforms

type *number*

Description	The type value of the unknown TLV
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv type *number*
Tree	type
Configurable	False
Platforms	Supported on all platforms

value *binary*

Description	The value portion of the unknwon TLV
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* opaque-lsa unknown-tlv value *binary*
Tree	value
Configurable	False
Platforms	Supported on all platforms

options *string*

Description	Contents of the options field
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* options *string*
Tree	options
Configurable	False
Platforms	Supported on all platforms

ospfv3-external-lsa

Description	Enter the ospfv3-external-lsa context AS-External and NSSA LSA.

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Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa
Tree	ospfv3-external-lsa
Configurable	False
Platforms	Supported on all platforms

external-route-tag *number*

Description	Route tag.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa external-route-tag *number*
Tree	external-route-tag
Configurable	False
Platforms	Supported on all platforms

flags *bits*

Description	Flags.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa flags *bits*
Tree	flags
Configurable	False
Platforms	Supported on all platforms

forwarding-address *(ipv4-address | ipv6-address)*

Description	Forwarding address.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa forwarding-address *(ipv4-address | ipv6-address)*
Tree	forwarding-address
Configurable	False
Platforms	Supported on all platforms

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metric *number*

Description	Metric
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

prefix *(ipv4-prefix | ipv6-prefix)*

Description	LSA Prefix.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Configurable	False
Platforms	Supported on all platforms

prefix-options

Description	Enter the prefix-options context Prefix options.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix-options
Tree	prefix-options
Configurable	False
Platforms	Supported on all platforms

prefix-options *identityref*

Description	OSPFv3 prefix option flag list. This list will contain the identities for the OSPFv3 options that are set for the OSPFv3 prefix.
Context	network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa prefix-options prefix-options *identityref*

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Tree prefix-options

Options

- ospfv3-prefix-nu-bit

  NU Bit, when set, the prefix should be excluded from IPv6 unicast calculations.

- ospfv3-prefix-la-bit

  LA bit, when set, the prefix is actually an IPv6 interface address of the Advertising Router.

- ospfv3-prefix-p-bit

  P bit, when set, the NSSA area prefix should be translated to an AS External LSA and advertised by the translating NSSA Border Router.

- ospfv3-prefix-dn-bit

  DN bit, when set, the inter-area-prefix LSA or AS-external LSA prefix has been advertised as an L3VPN prefix.

Configurable False

Platforms Supported on all platforms

referenced-link-state-id *number*

Description Referenced Link State ID.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa referenced-link-state-id *number*

Tree referenced-link-state-id

Configurable False

Platforms Supported on all platforms

referenced-ls-type *identityref*

Description Referenced Link State type.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa referenced-ls-type *identityref*

Tree referenced-ls-type

Options

- ospfv3-router-lsa
- ospfv3-network-lsa
- ospfv3-inter-area-prefix-lsa
- ospfv3-inter-area-router-lsa
- ospfv3-as-external-lsa

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- ospfv3-nssa-as-external-lsa
- ospfv3-link-lsa
- ospfv3-intra-area-prefix-lsa
- ospfv3-router-information-lsa

Configurable False

Platforms Supported on all platforms

unknown-referenced-ls-type *number*

Description Value for an unknown Referenced Link State type.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* ospfv3-external-lsa unknown-referenced-ls-type *number*

Tree unknown-referenced-ls-type

Configurable False

Platforms Supported on all platforms

sequence-number *string*

Description A signed 32-bit integer used to detect old and duplicate LSAs. The greater the sequence number the more recent the LSA.

Context network-instance name *string* protocols ospf instance name *string* lsdb lsa-types lsa-type type *identityref* lsas lsa advertising-router *string* link-state-id *string* sequence-number *string*

Tree sequence-number

Configurable False

Platforms Supported on all platforms

max-ecmp-paths *number*

Description The maximum number of ECMP next-hops to program into the FIB for every IP prefix

Context network-instance name *string* protocols ospf instance name *string* max-ecmp-paths *number*

Tree max-ecmp-paths

Range 1 to 64

Default 1

Configurable True

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Platforms	Supported on all platforms

new-lsas-originated

Description	The number of new link-state advertisements that have been originated. This number is incremented each time the router originates a new LSA.
Context	network-instance name *string* protocols ospf instance name *string* new-lsas-originated
Tree	new-lsas-originated
Configurable	False
Platforms	Supported on all platforms

new-lsas-received

Description	The number of link-state advertisements received determined to be new instantiations. This number does not include newer instantiations of self-originated link-state advertisements.
Context	network-instance name *string* protocols ospf instance name *string* new-lsas-received
Tree	new-lsas-received
Configurable	False
Platforms	Supported on all platforms

opaque-lsa-support *boolean*

Description	the value of opaque-lsa-support indicates the router's support for opaque LSA types. this object is valid only when version is 'version2'.
Context	network-instance name *string* protocols ospf instance name *string* opaque-lsa-support *boolean*
Tree	opaque-lsa-support
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	Used to report operational state of the OSPF instance
Context	network-instance name *string* protocols ospf instance name *string* oper-state *keyword*

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Tree	oper-state
Options	• enable • disable
Configurable	False
Platforms	Supported on all platforms

overflow *boolean*

Description	The value of in-overflow-state indicates the current overflow state (true/ false). This overflow state occurs when the number of non-default AS-external-LS-as entries exceed the link-state database capability.
Context	network-instance name *string* protocols ospf instance name *string* overflow *boolean*
Tree	overflow
Configurable	False
Platforms	Supported on all platforms

overload

Description	Enter the overload context
Context	network-instance name *string* protocols ospf instance name *string* overload
Tree	overload
Configurable	True
Platforms	Supported on all platforms

active *boolean*

Description	Enter the active context
Context	network-instance name *string* protocols ospf instance name *string* overload active *boolean*
Tree	active
Default	false
Configurable	True
Platforms	Supported on all platforms

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overload-include-ext-1 *boolean*

Description	Enter the overload-include-ext-1 context
Context	network-instance name *string* protocols ospf instance name *string* overload overload-include-ext-1 *boolean*
Tree	overload-include-ext-1
Default	false
Configurable	True
Platforms	Supported on all platforms

overload-include-ext-2 *boolean*

Description	Enter the overload-include-ext-2 context
Context	network-instance name *string* protocols ospf instance name *string* overload overload-include-ext-2 *boolean*
Tree	overload-include-ext-2
Default	false
Configurable	True
Platforms	Supported on all platforms

overload-include-stub *boolean*

Description	Enter the overload-include-stub context
Context	network-instance name *string* protocols ospf instance name *string* overload overload-include-stub *boolean*
Tree	overload-include-stub
Default	false
Configurable	True
Platforms	Supported on all platforms

overload-on-boot

Description	Enable the overload-on-boot context
Context	network-instance name *string* protocols ospf instance name *string* overload overload-on-boot
Tree	overload-on-boot
Configurable	True

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Platforms	Supported on all platforms

timeout *number*

Description	Enter the timeout context
Context	network-instance name *string* protocols ospf instance name *string* overload overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Default	60
Units	seconds
Configurable	True
Platforms	Supported on all platforms

rtr-adv-lsa-limit

Description	Enter the rtr-adv-lsa-limit context
Context	network-instance name *string* protocols ospf instance name *string* overload rtr-adv-lsa-limit
Tree	rtr-adv-lsa-limit
Configurable	True
Platforms	Supported on all platforms

log-only *boolean*

Description	Enter the log-only context
Context	network-instance name *string* protocols ospf instance name *string* overload rtr-adv-lsa-limit log-only *boolean*
Tree	log-only
Configurable	True
Platforms	Supported on all platforms

max-lsa-count *number*

Description	Enter the max-lsa-count context
Context	network-instance name *string* protocols ospf instance name *string* overload rtr-adv-lsa-limit max-lsa-count *number*

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Tree	max-lsa-count
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

overload-timeout *number*

Description	Enter the overload-timeout context
Context	network-instance name *string* protocols ospf instance name *string* overload rtr-adv-lsa-limit overload-timeout *number*
Tree	overload-timeout
Range	1 to 1800
Configurable	True
Platforms	Supported on all platforms

warning-threshold *number*

Description	Enter the warning-threshold context
Context	network-instance name *string* protocols ospf instance name *string* overload rtr-adv-lsa-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Default	0
Configurable	True
Platforms	Supported on all platforms

overload-rem-interval *number*

Description	the value of overload-rem-interval indicates the time for which the system will be in overload state if OSPF is in overload state. the value of 0 implies that the system is indefinitely in overload state.
Context	network-instance name *string* protocols ospf instance name *string* overload-rem-interval *number*
Tree	overload-rem-interval
Range	0 to 65535
Units	seconds
Configurable	False

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Platforms	Supported on all platforms

overload-state *keyword*

Description	the value of overload-oper-state indicates whether or not the OSPF application is presently in overload state or not.
Context	network-instance name *string* protocols ospf instance name *string* overload-state *keyword*
Tree	overload-state
Options	• overload • no-overload
Configurable	False
Platforms	Supported on all platforms

ovld-lsa-limit-rem-interval *number*

Description	the value of ovld-lsa-limit-rem-interval indicates the remaining time in seconds for which the system will be in overload state due to advertising router LSA limit exceeded. the value of 0 implies that the system is either not in overload or indefinitely in overload state.
Context	network-instance name *string* protocols ospf instance name *string* ovld-lsa-limit-rem-interval *number*
Tree	ovld-lsa-limit-rem-interval
Range	0 to 65535
Units	seconds
Configurable	False
Platforms	Supported on all platforms

preference *number*

Description	Sets the route prefence for OSPF sourced routes
Context	network-instance name *string* protocols ospf instance name *string* preference *number*
Tree	preference
Range	1 to 255
Default	10
Configurable	True

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Platforms	Supported on all platforms

reference-bandwidth *number*

Description	Configures the reference bandwidth that provides the basis for interface metrics based on link Bandwidth If the reference bandwidth is defined, then the cost is calculated using the following formula: cost = reference-bandwidth / bandwidth When a large reference-bandwidth value is configured, a metric calculation may result in a value higher than the supported protocol cost value. If this occurs, OSPF automatically reverts to the maximum configurable cost metric.
Context	network-instance name *string* protocols ospf instance name *string* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 8000000000
Default	400000000
Units	kbps
Configurable	True
Platforms	Supported on all platforms

router-id

Description	Enter the router-id context
Context	network-instance name *string* protocols ospf instance name *string* router-id
Tree	router-id
Configurable	True
Platforms	Supported on all platforms

routes-submitted

Description	the value of routes-submitted indicates the number of routes submitted to the route table manager (RTM) by this instance of OSPF.
Context	network-instance name *string* protocols ospf instance name *string* routes-submitted
Tree	routes-submitted
Configurable	False
Platforms	Supported on all platforms

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spf

Description Enter the spf context

SPF related information

Context network-instance name *string* protocols ospf instance name *string* spf

Tree spf

Configurable False

Platforms Supported on all platforms

avg-spf-run-interval *number*

Description the value of avg-spf-run-interval indicates the average time, in hundredths of seconds, of all the total SPF calculations performed by this OSPF router.

Context network-instance name *string* protocols ospf instance name *string* spf avg-spf-run-interval *number*

Tree avg-spf-run-interval

Range 0 to 2147483647

Units centiseconds

Configurable False

Platforms Supported on all platforms

ext-spf-runs

Description The total number of times that only the external portion of the SPF has been run since OSPF was last enabled.

Context network-instance name *string* protocols ospf instance name *string* spf ext-spf-runs

Tree ext-spf-runs

Configurable False

Platforms Supported on all platforms

full-spf-runs

Description The total number of times that complete SPF has been run on the router since OSPF was last enabled.

Context network-instance name *string* protocols ospf instance name *string* spf full-spf-runs

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Tree	full-spf-runs
Configurable	False
Platforms	Supported on all platforms

incremental-ext-spf-runs

Description	The total number of incremental SPF runs triggered by new or updated external LS-as.
Context	network-instance name *string* protocols ospf instance name *string* spf incremental-ext-spf-runs
Tree	incremental-ext-spf-runs
Configurable	False
Platforms	Supported on all platforms

incremental-inter-spf-runs

Description	The total number of incremental SPF runs triggered by new or updated inter-area prefix or inter-area router LS-as.
Context	network-instance name *string* protocols ospf instance name *string* spf incremental-inter-spf-runs
Tree	incremental-inter-spf-runs
Configurable	False
Platforms	Supported on all platforms

last-ext-spf

Description	Enter the last-ext-spf context Information about the last external SPF run
Context	network-instance name *string* protocols ospf instance name *string* spf last-ext-spf
Tree	last-ext-spf
Configurable	False
Platforms	Supported on all platforms

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interval *number*

Description	the value of ext-spf-run-interval indicates the time, in hundredths of seconds, used to perform the most recent total external (not incremental) SPF calculation.
Context	network-instance name *string* protocols ospf instance name *string* spf last-ext-spf interval *number*
Tree	interval
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

run-time *string*

Description	the value of last-ext-spf-run-time indicates the value of sys-up-time when the external OSPF dijkstra (SPF) was last run.
Context	network-instance name *string* protocols ospf instance name *string* spf last-ext-spf run-time *string*
Tree	run-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-full-spf

Description	Enter the last-full-spf context Information about the last full SPF run
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf
Tree	last-full-spf
Configurable	False
Platforms	Supported on all platforms

extern-spf-time *number*

Description	Time it toook, in hundredths of seconds, to complete the external LSA calculations.

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Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf extern-spf-time *number*
Tree	extern-spf-time
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

inter-spf-time *number*

Description	Time it toook, in hundredths of seconds, to complete the inter-area SPF calculations.
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf inter-spf-time *number*
Tree	inter-spf-time
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

intra-spf-time *number*

Description	Time it toook, in hundredths of seconds, to complete the intra-area SPF calculations.
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf intra-spf-time *number*
Tree	intra-spf-time
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

rtm-update-time *number*

Description	Time it toook, in hundredths of seconds, to complete the RTM updates.
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf rtm-update-time *number*

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Tree	rtm-update-time
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

run-time *string*

Description	the value of last-full-spf-run-time indicates the time at which the system last performed a full dijkstra (SPF) run.
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf run-time *string*
Tree	run-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

total-time *number*

Description	Time it toook, in hundredths of seconds, to complete the last SPF run completely.
Context	network-instance name *string* protocols ospf instance name *string* spf last-full-spf total-time *number*
Tree	total-time
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

max-spf-run-interval *number*

Description	the value of max-spf-run-interval indicates the maximum time, in hundredths of seconds, used to perform a total SPF calculation.
Context	network-instance name *string* protocols ospf instance name *string* spf max-spf-run-interval *number*
Tree	max-spf-run-interval
Range	0 to 2147483647

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Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

min-spf-run-interval *number*

Description	the value of min-spf-run-interval indicates the minimum time, in hundredths of seconds, used to perform a total SPF calculation.
Context	network-instance name *string* protocols ospf instance name *string* spf min-spf-run-interval *number*
Tree	min-spf-run-interval
Range	0 to 2147483647
Units	centiseconds
Configurable	False
Platforms	Supported on all platforms

spf-attempts-failed

Description	The number of times an attempt to run SPF has failed because SPF runs have been stopped as a result of insufficient memory resources.
Context	network-instance name *string* protocols ospf instance name *string* spf spf-attempts-failed
Tree	spf-attempts-failed
Configurable	False
Platforms	Supported on all platforms

suppress-dn-bit *boolean*

Description	In an ip-vrf (VPRN), when true, this OSPF instance does not set the Down (DN) bit on originated LSAs. Applies to both OSPFv2 (Type 3 summary, Type 5 / Type 7 external LSAs, RFC 4576) and OSPFv3 (inter-area-prefix and AS-external LSA prefix-options, RFC 6565); the SR Linux model intentionally exposes a single version-agnostic knob because the underlying behaviour is identical at the LSA origination boundary. In the default network-instance, originated LSAs do not carry the DN bit for PE-CE loop prevention, so this leaf is a no-op there and is constrained to false by a must statement.
Context	network-instance name *string* protocols ospf instance name *string* suppress-dn-bit *boolean*

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Tree	suppress-dn-bit
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timers

Description	Enter the timers context
Context	network-instance name *string* protocols ospf instance name *string* timers
Tree	timers
Configurable	True
Platforms	Supported on all platforms

incremental-spf-wait *number*

Description	Delay time before an incremental SPF calculation is started
Context	network-instance name *string* protocols ospf instance name *string* timers incremental-spf-wait *number*
Tree	incremental-spf-wait
Range	0 to 1000
Default	1000
Configurable	True
Platforms	Supported on all platforms

lsa-accumulate *number*

Description	Delay time for accumulating multiple LSAs before advertising them to neighbors
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-accumulate *number*
Tree	lsa-accumulate
Range	0 to 1000

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Default	1000
Configurable	True
Platforms	Supported on all platforms

lsa-arrival *number*

Description	Minimum delay between receipt of the same LSAs arriving from neighbors
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-arrival *number*
Tree	lsa-arrival
Range	0 to 600000
Default	1000
Configurable	True
Platforms	Supported on all platforms

lsa-generate

Description	Enter the lsa-generate context
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-generate
Tree	lsa-generate
Configurable	True
Platforms	Supported on all platforms

lsa-initial-wait *number*

Description	First waiting period between link state advertisements LSA originates
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-generate lsa-initial-wait *number*
Tree	lsa-initial-wait
Range	10 to 600000
Default	5000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

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lsa-second-wait *number*

Description	Hold time between the first and second LSA generation
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-generate lsa-second-wait *number*
Tree	lsa-second-wait
Range	10 to 600000
Default	5000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

max-lsa-wait *number*

Description	Maximum time between two consecutive occurrences of an LSA being generated
Context	network-instance name *string* protocols ospf instance name *string* timers lsa-generate max-lsa-wait *number*
Tree	max-lsa-wait
Range	10 to 600000
Default	5000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

redistribute-delay *number*

Description	Hold down timer for external routes that are redistributed in OSPF
Context	network-instance name *string* protocols ospf instance name *string* timers redistribute-delay *number*
Tree	redistribute-delay
Range	0 to 1000
Default	1000
Configurable	True
Platforms	Supported on all platforms

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spf-wait

Description	Enter the spf-wait context
Context	network-instance name *string* protocols ospf instance name *string* timers spf-wait
Tree	spf-wait
Configurable	True
Platforms	Supported on all platforms

spf-initial-wait *number*

Description	Initial SPF calculation delay after a topology change
Context	network-instance name *string* protocols ospf instance name *string* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Default	1000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

spf-max-wait *number*

Description	Maximum interval between two consecutive SPF calculations
Context	network-instance name *string* protocols ospf instance name *string* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Default	10000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

spf-second-wait *number*

Description	Hold time between the first and second SPF calculation

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Context	network-instance name *string* protocols ospf instance name *string* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait
Range	10 to 100000
Default	1000
Units	milliseconds
Configurable	True
Platforms	Supported on all platforms

total-exported-routes

Description	the value of total-exported-routes indicates the total number of routes exported into OSPF from the route table manager when an export policy is configured. value of total-exported-routes would be 0 when no export policy is configured.
Context	network-instance name *string* protocols ospf instance name *string* total-exported-routes
Tree	total-exported-routes
Configurable	False
Platforms	Supported on all platforms

trace-options

Description	Enter the trace-options context
Context	network-instance name *string* protocols ospf instance name *string* trace-options
Tree	trace-options
Configurable	True
Platforms	Supported on all platforms

trace

Description	Enter the trace context Tracing parameter flags
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace
Tree	trace
Configurable	True

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Platforms	Supported on all platforms

adjacencies

Description	Enable tracing all adjacency events.
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace adjacencies
Tree	adjacencies
Configurable	True
Platforms	Supported on all platforms

graceful-restart

Description	Enable tracing all graceful-restart events.
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace graceful-restart
Tree	graceful-restart
Configurable	True
Platforms	Supported on all platforms

interfaces

Description	Enable tracing all interface events.
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace interfaces
Tree	interfaces
Configurable	True
Platforms	Supported on all platforms

lsdb

Description	Trace OSPF LSDB events Only one type can be enabled at a time
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace lsdb
Tree	lsdb
Configurable	True
Platforms	Supported on all platforms

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link-state-id *string*

Description Enter the link-state-id context

Context network-instance name *string* protocols ospf instance name *string* trace-options trace lsdb link-state-id *string*

Tree link-state-id

Configurable True

Platforms Supported on all platforms

router-id *string*

Description Enter the router-id context

Context network-instance name *string* protocols ospf instance name *string* trace-options trace lsdb router-id *string*

Tree router-id

Configurable True

Platforms Supported on all platforms

type *keyword*

Description Enter the type context

Context network-instance name *string* protocols ospf instance name *string* trace-options trace lsdb type *keyword*

Tree type

Options

- all

  Enable tracing of all LSDB events
- router

  Enable tracing of LSDB router LSA events
- network

  Enable tracing of OSPF LSDB network LSA events
- summary

  Enable tracing of OSPF LSDB summary LSA events
- nssa

  Enable tracing of OSPF LSDB NSSA LSA events
- external

  Enable tracing of OSPF LSDB events for External LSA
- opaque

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Enable tracing of OSPF LSDB events involving opaque LSA

- inter-area-prefix

  Enable tracing of OSPF LSDB events for inter-area prefixes

- inter-area-router

  Enable tracing of OSPF LSDB events for inter-area routers

- intra-area-prefix

  Enable tracing of OSPF LSDB events for intra-area prefixes

Configurable True

Platforms Supported on all platforms

misc

Description Enable tracing all Config events.

Context network-instance name *string* protocols ospf instance name *string* trace-options trace misc

Tree misc

Configurable True

Platforms Supported on all platforms

packet

Description Trace OSPF Packet types Only one type can be enabled at a time

Context network-instance name *string* protocols ospf instance name *string* trace-options trace packet

Tree packet

Configurable True

Platforms Supported on all platforms

detail

Description To enable detailed tracing. Includes both received and sent packets.

Context network-instance name *string* protocols ospf instance name *string* trace-options trace packet detail

Tree detail

Configurable True

Platforms Supported on all platforms

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modifier *keyword*

Description Enter the modifier context

Context network-instance name *string* protocols ospf instance name *string* trace-options trace packet modifier *keyword*

Tree modifier

Options

- ingress

  To enable tracing for the packets which are received.
- egress

  To enable tracing for the sent packets.
- in-and-egress

  To enable tracing for both sent and received packets
- drop

  To enable tracing for the sent packets.

Configurable True

Platforms Supported on all platforms

type *keyword*

Description Enter the type context

Context network-instance name *string* protocols ospf instance name *string* trace-options trace packet type *keyword*

Tree type

Options

- all

  Enable tracing of all OSPF packets
- hello

  Enable tracing of OSPF Hello packets
- dbdescr

  Enable tracing of OSPF database Descriptor packets
- ls-request

  Enable tracing of OSPF link-state request packets
- ls-update

  Enable tracing of OSPF link-state update packets
- ls-ack

  Enable tracing of OSPF link-state Ack packets

Configurable True

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Platforms	Supported on all platforms

routes

Description	Enable the routes context
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace routes
Tree	routes
Configurable	True
Platforms	Supported on all platforms

dest-address *(ipv4-address | ipv6-address)*

Description	Enter the dest-address context
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace routes dest-address *(ipv4-address | ipv6-address)*
Tree	dest-address
Configurable	True
Platforms	Supported on all platforms

spf

Description	Enable the spf context
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace spf
Tree	spf
Configurable	True
Platforms	Supported on all platforms

dest-address *(ipv4-address | ipv6-address)*

Description	Enter the dest-address context
Context	network-instance name *string* protocols ospf instance name *string* trace-options trace spf dest-address *(ipv4-address | ipv6-address)*
Tree	dest-address
Configurable	True
Platforms	Supported on all platforms

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version *identityref*

Description The version that this ospf instance supports.

Context network-instance name *string* protocols ospf instance name *string* version *identityref*

Tree version

Options

- ospf-v2

  Version 2 of the OSPF protocol
- ospf-v3

  Version 3 of the OSPF protocol

Configurable True

Platforms Supported on all platforms

pcep

Description Top-level configuration and operational state for Path Computation Element Protocol (PCEP)

Context network-instance name *string* protocols pcep

Tree pcep

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcc

Description Enter the pcc context

Configure Path Computation Client (PCC) parameters

Context network-instance name *string* protocols pcep pcc

Tree pcc

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Administrative state

Context network-instance name *string* protocols pcep pcc admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allow-negotiation *boolean*

Description Indicates whether the PCEP entity will permit negotiation of session parameters.

Context network-instance name *string* protocols pcep pcc allow-negotiation *boolean*

Tree allow-negotiation

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capabilities *keyword*

Description The list of capabilities supported by this PCEP

Context network-instance name *string* protocols pcep pcc capabilities *keyword*

Tree capabilities

Options

- stateful-delegate
- stateful-pce
- stateful-optimize
- segment-routing-path
- rsvp-path
- optical-gmpls
- pce-initiated-lsp
- stateless

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- p2mp
- p2mp-delegate
- p2mp-initiate
- association
- multipath

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8

connect-timer *number*

Description The time that the PCEP entity will wait to establish a TCP connection with a peer

If a TCP connection is not established within this time, then PCEP aborts the session setup attempt.

Context network-instance name *string* protocols pcep pcc connect-timer *number*

Tree connect-timer

Range 1 to 65535

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dead-timer *number*

Description Configure dead timer

Context network-instance name *string* protocols pcep pcc dead-timer *number*

Tree dead-timer

Range 1 to 255

Default 120

Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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keep-wait-timer *number*

Description	The time that the PCEP entity will wait to receive a Keepalive or PCErr message from a peer during session initialization after receiving an Open message If no Keepalive or PCErr message is received within this time, then PCEP terminates the TCP connection.
Context	network-instance name *string* protocols pcep pcc keep-wait-timer *number*
Tree	keep-wait-timer
Range	1 to 65535
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive *number*

Description	Configure keepalive
Context	network-instance name *string* protocols pcep pcc keepalive *number*
Tree	keepalive
Range	1 to 255
Default	30
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-update pce-id *number*

Description	List of Labeled Switch Path (LSP) update information sent by a PCE to a PCC to update attributes of a LSP
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number*
Tree	lsp-update
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-id *number*

Description	The unique identifier for PCE
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number*
Range	1 to 4294967295
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-detail association-index *number*

Description	List of pce-associations attached to LSP path
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number*
Tree	association-detail
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-index *number*

Description	The unique identifier for association entries
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *number*

Description	Association-id for the associaiton group

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Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* association-id *number*
Tree	association-id
Range	0 to 65535
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Associaiton Source for the association
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	association-source
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-type *keyword*

Description	Associations types
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* association-type *keyword*
Tree	association-type
Options	• diversity Diversity association • policy Policy association
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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disjointness-reference *boolean*

Description	Refers to shortest path or not
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* disjointness-reference *boolean*
Tree	disjointness-reference
Default	false
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disjointness-type *keyword*

Description	Refers to strict or loose path
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* disjointness-type *keyword*
Tree	disjointness-type
Default	loose
Options	• strict • loose
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

diversity-type *keyword*

Description	Refers to the choice of path node / link / srlg-node / srlg-link
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* association-detail association-index *number* diversity-type *keyword*
Tree	diversity-type
Default	none
Options	• none • link • node • srlg-link

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- srlg-node

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delegated *boolean*

Description Indicates whether the PCC is delegating the LSP to the PCE

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* delegated *boolean*

Tree delegated

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delegated-peer-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The peer address to which the PCC has delegated the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* delegated-peer-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree delegated-peer-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The destination address of the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* destination-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree destination-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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extended-tunnel-id *(ipv4-address-unicast | ipv6-address-unicast)*

Description The extended tunnel identifier

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* extended-tunnel-id *(ipv4-address-unicast | ipv6-address-unicast)*

Tree extended-tunnel-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description The unique identifier for the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* lsp-id *number*

Tree lsp-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-type *keyword*

Description The type of LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* lsp-type *keyword*

Tree lsp-type

Options

- rsvp-p2p

  Resource Reservation Protocol-Traffic Engineering (RSVP-TE) Point to Point
- rsvp-p2mp

  RSVP-TE Point to Multipoint
- segment-routing

  Segment Routing
- pce-initiated-segment-routing

  Segment Routing

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The LSP path name that is unique in the PCC and remains constant throughout a path's life time

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* name *string*

Tree name

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational status of the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* oper-state *keyword*

Tree oper-state

Options

- down

  LSP is not active
- up

  LSP has been signaled
- active

  LSP is up and carrying traffic
- going-down

  LSP is being torn down, resources are being released
- going-up

  LSP is being signaled

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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path-detail path-type *keyword*

Description Path details.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword*

Tree path-detail

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-type *keyword*

Description LSP paths types

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword*

Options

- current

  Current path
- in-progress

  A path under process
- pending

  Pending path which is yet to be processed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid *number*

Description Unique Segment Identifier label value as binding-sid

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* binding-sid *number*

Tree binding-sid

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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binding-sid-remaining *number*

Description Remaining binding sid values

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* binding-sid-remaining *number*

Tree binding-sid-remaining

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric *number*

Description The Delay metric that must be optimized by the path computation algorithm for providing the cost of computed path

It is the METRIC object used in PCReq messages.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* delay-metric *number*

Tree delay-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error *keyword*

Description The reason for LSP update failure

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* error *keyword*

Tree error

Options

- not-applicable

  Not Applicable
- unknown-reason

  Unknown reason
- limit-reached-for-pce-lsps

  Limit reached for PCE-controlled LSPs
- too-many-pending-lsp-updates

  Too many pending LSP update requests

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- unacceptable-parameters

  Unacceptable parameters
- internal-error

  Internal error
- lsp-admin-down

  LSP administratively brought down
- lsp-preempted

  LSP preempted
- rsvp-signaling-error

  RSVP signaling error

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-any *number*

Description Set of attribute filters associated with a tunnel, any of which renders a link unacceptable

It is the LSPA object used in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* exclude-any *number*

Tree exclude-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-route-objects route-object-index *number*

Description Path EROs details.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number*

Tree explicit-route-objects

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-object-index *number*

Description	The unique identifier for RRO/ERO entries
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-number *number*

Description	AS-Number for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* as-number *number*
Tree	as-number
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-interface-id *number*

Description	Local interface-id for a given unnumbered/link-local segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* local-interface-id *number*
Tree	local-interface-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-interface-name *string*

Description	Local interface name for a given unnumbered/link-local segment in ERO or RRO

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Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* local-interface-name *string*
Tree	local-interface-name
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Local IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* local-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	local-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-interface-id *number*

Description	Remote interface-id for a given unnumbered/link-local segment in ERO or RRO

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Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* remote-interface-id *number*
Tree	remote-interface-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Remote IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* remote-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	remote-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Router-id for a given unnumbered segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* router-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-label *number*

Description	Unique Segment Identifier label value
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* sid-label *number*

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Tree	sid-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-type *keyword*

Description	Refers to strict or loose hop
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* explicit-route-objects route-object-index *number* sid-type *keyword*
Tree	sid-type
Options	• strict • loose
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

holding-priority *number*

Description	The priority of the TE LSP with respect to holding resources The value of 0 represents highest priority.The holding priority indicates whether this session can be preempted by another session. It is the LSPA object used in PCReq message.
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* holding-priority *number*
Tree	holding-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-count *number*

Description	The number of hops that are traversed via the TE tunnel

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It is the METRIC object in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* hop-count *number*

Tree hop-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igp-metric *number*

Description The Interior Gateway Protocol (IGP) metric that must be optimized by the path computation algorithm for providing the cost of computed path

It is the METRIC object used in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* igp-metric *number*

Tree igp-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description Set of attribute filters associated with a tunnel, all of which much be present for a link to be acceptable

It is the LSPA object used in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* include-all *number*

Tree include-all

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description Set of attribute filters associated with a tunne, any of which renders a link acceptable

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It is the LSPA object used in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* include-any *number*

Tree include-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-bandwidth *number*

Description The bandwidth that is being requested by the LSP.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* lsp-bandwidth *number*

Tree lsp-bandwidth

Units Mbps

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

record-route-objects route-object-index *number*

Description Path RROs details.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number*

Tree record-route-objects

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-object-index *number*

Description The unique identifier for RRO/ERO entries

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-number *number*

Description	AS-Number for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* as-number *number*
Tree	as-number
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-interface-id *number*

Description	Local interface-id for a given unnumbered/link-local segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* local-interface-id *number*
Tree	local-interface-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-interface-name *string*

Description	Local interface name for a given unnumbered/link-local segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* local-interface-name *string*
Tree	local-interface-name
String Length	5 to 27
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Local IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* local-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	local-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-interface-id *number*

Description	Remote interface-id for a given unnumbered/link-local segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* remote-interface-id *number*
Tree	remote-interface-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Remote IP address for a given segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* remote-prefix *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	remote-prefix
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Router-id for a given unnumbered segment in ERO or RRO
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* router-id *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	router-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-label *number*

Description	Unique Segment Identifier label value
Context	network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* sid-label *number*
Tree	sid-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sid-type *keyword*

Description Refers to strict or loose hop

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* record-route-objects route-object-index *number* sid-type *keyword*

Tree sid-type

Options

- strict
- loose

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority *number*

Description The priority of the TE LSP with respect to holding resources

The value of 0 represents highest priority. The holding priority indicates whether this session can be in PCReq message.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* setup-priority *number*

Tree setup-priority

Range 0 to 7

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srp-id *number*

Description Stateful PCE Request Parameters(SRP) identifier for update sent by PCE

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* srp-id *number*

Tree srp-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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te-metric *number*

Description The Traffic Engineering (TE) metric that must be optimized by the path computation algorithm for providing the cost of computed path

It is the METRIC object used in PCReq messages.

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* path-detail path-type *keyword* te-metric *number*

Tree te-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The sender address of the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* source-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree source-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description The state of the LSP

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* state *keyword*

Tree state

Options

- not-applicable
- mbb-in-progress

  MBB procedure is in progress
- mbb-fail

  MBB procedure failed
- mbb-success

  MBB procedure succeeded
- update-delegation

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Delegation update is being processed

- lsp-down

  LSP down update is being processed

- lsp-up

  LSP up update is being processed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description The unique tunnel identifier that remains constant over the life time of a tunnel

Context network-instance name *string* protocols pcep pcc lsp-update pce-id *number* tunnel-id *number*

Tree tunnel-id

Range 1 to 65535

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-pce-init-lsps *number*

Description Configure maximum PCE initiated LSPs

Context network-instance name *string* protocols pcep pcc max-pce-init-lsps *number*

Tree max-pce-init-lsps

Range 0 to 8191

Default 8191

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-sessions *number*

Description	The maximum number of sessions involving this PCEP entity that can exist at any time.
Context	network-instance name *string* protocols pcep pcc max-sessions *number*
Tree	max-sessions
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-unknown-requests *number*

Description	The maximum number of unrecognized requests and replies that any session on this PCEP entity is willing to accept per minute before terminating the session.
Context	network-instance name *string* protocols pcep pcc max-unknown-requests *number*
Tree	max-unknown-requests
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

open-wait-timer *number*

Description	The time that the PCEP entity will wait to receive an Open message from a peer after the TCP connection has come up If no Open message is received within this time, then PCEP terminates the TCP connection.
Context	network-instance name *string* protocols pcep pcc open-wait-timer *number*
Tree	open-wait-timer
Range	1 to 65535
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Indicates the operational status of this PCEP

Context network-instance name *string* protocols pcep pcc oper-state *keyword*

Tree oper-state

Options

- up

  The PCEP entity is active
- down

  The PCEP entity is inactive
- going-up

  The PCEP entity is activating
- going-down

  The PCEP entity is deactivating
- failed

  The PCEP entity has failed and will recover when possible
- failed-permanently

  The PCEP entity has failed and will not recover without operator intervention

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-request request-id *number*

Description List of Path Computation Request (PCReq) messages sent by the PCC to request a path computation.

Context network-instance name *string* protocols pcep pcc path-request request-id *number*

Tree path-request

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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request-id *number*

Description The unique path computation request identifier represented in PCReq message

Context network-instance name *string* protocols pcep pcc path-request request-id *number*

Range 1 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bidirectional *boolean*

Description Indicates whether the PCReq message relates to a bi-directional TE LSP that has the same traffic engineering requirements in each direction

It is the RP object used in PCReq message. TE requirements include fate sharing, protection and restoration, LSRs, TE links, and resource requirements (e.g., latency and jitter)

Context network-instance name *string* protocols pcep pcc path-request request-id *number* bidirectional *boolean*

Tree bidirectional

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric *number*

Description The Delay metric that must be optimized by the path computation algorithm for providing the cost of computed path

It is the METRIC object used in PCReq messages.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* delay-metric *number*

Tree delay-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	The destination address of the path for which the path computation is requested It is the END-POINTS object used in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* destination-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	destination-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-any *number*

Description	Set of attribute filters associated with a tunnel, any of which renders a link unacceptable It is the LSPA object used in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* exclude-any *number*
Tree	exclude-any
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-profiles *number*

Description	List of extended identifiers associated with the path profile identifier.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* extended-profiles *number*
Tree	extended-profiles
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

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extended-tunnel-id *(ipv4-address-unicast | ipv6-address-unicast)*

Description	The extended tunnel identifier
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* extended-tunnel-id *(ipv4-address-unicast | ipv6-address-unicast)*
Tree	extended-tunnel-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

holding-priority *number*

Description	The priority of the TE LSP with respect to holding resources The value of 0 represents highest priority.The holding priority indicates whether this session can be preempted by another session. It is the LSPA object used in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* holding-priority *number*
Tree	holding-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-count *number*

Description	The number of hops that are traversed via the TE tunnel It is the METRIC object in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* hop-count *number*
Tree	hop-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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igp-metric *number*

Description The Interior Gateway Protocol (IGP) metric that must be optimized by the path computation algorithm for providing the cost of computed path

It is the METRIC object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* igp-metric *number*

Tree igp-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-all *number*

Description Set of attribute filters associated with a tunnel, all of which much be present for a link to be acceptable

It is the LSPA object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* include-all *number*

Tree include-all

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-any *number*

Description Set of attribute filters associated with a tunne, any of which renders a link acceptable

It is the LSPA object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* include-any *number*

Tree include-any

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local-protection-desired *boolean*

Description	Indicates whether local protection is desired or not It is the LSPA (LSP Attribute) object used in PCReq message. When the value of this object is set to 'true', it indicates that the computed path must include links protected with Fast Reroute as defined in the maximum number of hops to be transversed that must not be exceeded to consider computed path as acceptable.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* local-protection-desired *boolean*
Tree	local-protection-desired
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loose-path-acceptable *boolean*

Description	Indicates whether a loose path is acceptable (true) or not (false) It is the RP object used in PCReq message. When the value of this object is set to 'true', it indicates that a loose path is acceptable. When the value of this object is set to 'false', it indicates that a path exclusively made of strict hops is required.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* loose-path-acceptable *boolean*
Tree	loose-path-acceptable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-bandwidth *number*

Description	The bandwidth that is being requested by the LSP.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* lsp-bandwidth *number*
Tree	lsp-bandwidth
Units	Mbps
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description The unique identifier for the LSP

Context network-instance name *string* protocols pcep pcc path-request request-id *number* lsp-id *number*

Tree lsp-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-name *string*

Description The LSP path name that is unique in the PCC and remains constant throughout a path's life time.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* lsp-name *string*

Tree lsp-name

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-type *keyword*

Description The type of LSP

Context network-instance name *string* protocols pcep pcc path-request request-id *number* lsp-type *keyword*

Tree lsp-type

Options

- rsvp-p2p

  Resource Reservation Protocol-Traffic Engineering (RSVP-TE) Point to Point
- rsvp-p2mp

  RSVP-TE Point to Multipoint

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- segment-routing

  Segment Routing
- pce-initiated-segment-routing

  Segment Routing

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-lsr-labels *number*

Description The maximum segment routing label stack size for this LSP.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* max-lsr-labels *number*

Tree max-lsr-labels

Range 1 to 10

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

message-state *keyword*

Description The state of the PCReq message

Context network-instance name *string* protocols pcep pcc path-request request-id *number* message-state *keyword*

Tree message-state

Options

- unknown

  The state of PCReq message is unknown
- request-parameter

  Request Parameter (RP) object is included in the PCReq message
- sent-for-compute

  PCReq message has been sent for path computation
- error-received

  Path Computation Error (PCErr) message is received by the PCC
- notify-received

  Path Computation Notification (PCNtf) message is received by the PCC
- cancel

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PCReq message has been cancelled

- compute-received

  Path computation is received by the PCC

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-bound *keyword*

Description Indicates whether the metric-value specifies a bound (a maximum)for the path metric that must not be exceeded for the PCC to consider the computed path as acceptable

It is the METRIC object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* metric-bound *keyword*

Tree metric-bound

Options

- igp-metric
- te-metric
- hop-count
- delay-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

metric-compute *keyword*

Description Indicates whether PCE must provide the computed path metric value in Path Computation Response (PCRep) message for the corresponding metric

It is the METRIC object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* metric-compute *keyword*

Tree metric-compute

Options

- igp-metric
- te-metric
- hop-count

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- delay-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

msg-priority *number*

Description The priority of the PCReq message

It is RP object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* msg-priority *number*

Tree msg-priority

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

profiles *number*

Description List of path profile identifiers

Context network-instance name *string* protocols pcep pcc path-request request-id *number* profiles *number*

Tree profiles

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 5

reoptimization *boolean*

Description Indicates whether the PCReq message relates to the reoptimization of an existing TE LSP

It is the RP object used in PCReq message.

Context network-instance name *string* protocols pcep pcc path-request request-id *number* reoptimization *boolean*

Tree reoptimization

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-priority *number*

Description	The priority of the TE LSP with respect to holding resources The value of 0 represents highest priority. The holding priority indicates whether this session can be in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* setup-priority *number*
Tree	setup-priority
Range	0 to 7
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	The source address of the path for which path computation is requested It is the END-POINTS object used in PCReq message.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* source-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	source-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-vector-id *number*

Description	The Synchronization Vector (svec) identifier for Synchronized Dependent Path Computations
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* sync-vector-id *number*
Tree	sync-vector-id

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-metric *number*

Description	The Traffic Engineering (TE) metric that must be optimized by the path computation algorithm for providing the cost of computed path It is the METRIC object used in PCReq messages.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* te-metric *number*
Tree	te-metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description	The unique tunnel identifier that remains constant over the life time of a tunnel.
Context	network-instance name *string* protocols pcep pcc path-request request-id *number* tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-associations

Description	Enter the pce-associations context Configure associations to be used with PCE
Context	network-instance name *string* protocols pcep pcc pce-associations
Tree	pce-associations
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

diversity association-name *string*

Description	List of diversity association parameters
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string*
Tree	diversity
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-name *string*

Description	Association name
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *number*

Description	Association-id for the associaiton group
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string* association-id *number*
Tree	association-id
Range	0 to 65535
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Associaiton Source for the association
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string* association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	association-source
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disjointness-reference *boolean*

Description	Refers to shortest path or not
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string* disjointness-reference *boolean*
Tree	disjointness-reference
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disjointness-type *keyword*

Description	Refers to strict or loose path
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string* disjointness-type *keyword*
Tree	disjointness-type
Default	loose
Options	• strict • loose
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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diversity-type *keyword*

Description	Refers to the choice of path node / link / srlg-node / srlg-link
Context	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string* diversity-type *keyword*
Tree	diversity-type
Default	none
Options	• none • link • node • srlg-link • srlg-node
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy association-name *string*

Description	List of policies for PCC
Context	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-name *string*

Description	Association name
Context	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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association-id *number*

Description	Association-id for the associaiton group
Context	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string* association-id *number*
Tree	association-id
Range	0 to 65535
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Associaiton Source for the association
Context	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string* association-source *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	association-source
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Configure peer parameters for PCC
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

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ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The address of the PCE peer

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of PCC peer

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capabilities *keyword*

Description The capabilities supported by this peer

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* capabilities *keyword*

Tree capabilities

Options

- stateful-delegate
- stateful-pce
- stateful-optimize
- segment-routing-path
- rsvp-path
- optical-gmpls
- pce-initiated-lsp
- stateless

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- p2mp
- p2mp-delegate
- p2mp-initiate
- association
- multipath

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8

is-overloaded *boolean*

Description The value indicates whether this peer is overloaded with the processing of existing requests and is unable to handle new requests leading to unacceptable response times

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* is-overloaded *boolean*

Tree is-overloaded

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Configure local IP to be used for PCE peering

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* local-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree local-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description Reference to a configured network-instance used for reachability to PCE This network-instance must already exist in the system.

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Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-dead-timer *number*

Description	The operational value of dead timer interval in use by this peer This is the time after which a peer should declare a session down if it is does not receive any PCEP messages
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-dead-timer *number*
Tree	oper-dead-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-keepalive *number*

Description	The operational value of keepalive interval in use by this entity's peer This is the maximum time between two consecutive messages sent to a peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-keepalive *number*
Tree	oper-keepalive
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-local-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The value indicates the internet address being used by this PCEP Peer.

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-local-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree oper-local-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details the operational state of the Pcep Pcc Peer

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

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Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preference *number*

Description The preference value of this peer

If a higher preference PCE is unavailable or not connected, the PCE with the next preference is used.

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* preference *number*

Tree preference

Range 0 to 100

Default 0

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-established-time *string*

Description Indicates when the session with this peer entered into the established state

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-established-time *string*

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Tree	session-established-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

speaker-id *string*

Description	A unique speaker identifier for the peer that does change during lifetime of the speaker
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* speaker-id *string*
Tree	speaker-id
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Holds statistics of messages send to peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-keepalive-rcvd *number*

Description	The number of Keepalive messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-keepalive-rcvd *number*
Tree	num-keepalive-rcvd

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-keepalive-sent *number*

Description	The number of Keepalive messages sent to this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-keepalive-sent *number*
Tree	num-keepalive-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcerr-rcvd *number*

Description	The number of PCErr messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcerr-rcvd *number*
Tree	num-pcerr-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcerr-sent *number*

Description	The number of PCErr messages sent to this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcerr-sent *number*
Tree	num-pcerr-sent

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcinit-rcvd *number*

Description	The number of PC initiated messages received from this peer.
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcinit-rcvd *number*
Tree	num-pcinit-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcinit-sent *number*

Description	The number of PC initiated messages sent to this peer.
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcinit-sent *number*
Tree	num-pcinit-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcntf-rcvd *number*

Description	The number of PCNtf messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcntf-rcvd *number*
Tree	num-pcntf-rcvd

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcntf-sent *number*

Description	The number of PCNtf messages sent to this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcntf-sent *number*
Tree	num-pcntf-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcrep-rcvd *number*

Description	The number of PCRep messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcrep-rcvd *number*
Tree	num-pcrep-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcrep-sent *number*

Description	The number of PCRep messages sent to this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcrep-sent *number*
Tree	num-pcrep-sent

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcreq-rcvd *number*

Description	The number of PCReq messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcreq-rcvd *number*
Tree	num-pcreq-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcreq-sent *number*

Description	The number of PCReq messages sent to this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcreq-sent *number*
Tree	num-pcreq-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcrpt-rcvd *number*

Description	The number of PCRpt messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcrpt-rcvd *number*
Tree	num-pcrpt-rcvd

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcrpt-sent *number*

Description	The number of PCRpt messages sent to this peer.
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcrpt-sent *number*
Tree	num-pcrpt-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcupd-rcvd *number*

Description	The number of PCUpd messages received from this peer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcupd-rcvd *number*
Tree	num-pcupd-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-pcupd-sent *number*

Description	The number of PCUpd messages sent to this peer.
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-pcupd-sent *number*
Tree	num-pcupd-sent

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-req-rcvd *number*

Description	The number of requests received from this peer A request corresponds 1:1 with an RP object in a PCReq message
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-req-rcvd *number*
Tree	num-req-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-req-sent *number*

Description	The number of requests sent to this peer A request corresponds 1:1 with an RP object in a PCReq message
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-req-sent *number*
Tree	num-req-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-rpt-rcvd *number*

Description	The number of report messages received from this peer This might be greater than num-pcrpt-rcvd because multiple requests can be batched into a single PCRpt message.

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Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-rpt-rcvd *number*
Tree	num-rpt-rcvd
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-rpt-sent *number*

Description	The number of report messages sent to this peer This might be greater than num-pcrpt-sent because multiple requests can be batched into a single PCRpt messages.
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-rpt-sent *number*
Tree	num-rpt-sent
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

num-session-setup-fail *number*

Description	The number of PCEP sessions with the peer that have been attempted but failed before being fully established This counter is incremented each time a session retry to this peer fails
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-session-setup-fail *number*
Tree	num-session-setup-fail
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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num-session-setup-ok *number*

Description The number of PCEP sessions successfully established with the peer, including any current session

This counter is incremented each time a session with this peer is successfully established

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics num-session-setup-ok *number*

Tree num-session-setup-ok

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-state *keyword*

Description The synchronization state of this peer.

Context network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* sync-state *keyword*

Tree sync-state

Options

- not-initialized

  Indicates the State Synchronization has not yet started or not initialized due to no connection with the peer.

- in-progress

  Indicates the State Synchronization is in progress

- done

  Indicates the State Synchronozation has been completed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tls-client-profile *reference*

Description Specifies the profile name used by PCC.

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Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* tls-client-profile *reference*
Tree	tls-client-profile
Reference	system tls profile name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tls-wait-timer *number*

Description	Configure tls-wait-timer
Context	network-instance name *string* protocols pcep pcc peer ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)* tls-wait-timer *number*
Tree	tls-wait-timer
Range	60 to 255
Default	60
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

redelegation-timer *number*

Description	Configure redelegation-timer
Context	network-instance name *string* protocols pcep pcc redelegation-timer *number*
Tree	redelegation-timer
Range	1 to 3600
Default	90
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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report-path-constraints *boolean*

Description	Specify whether to enable/disable path constraints in PCC report
Context	network-instance name *string* protocols pcep pcc report-path-constraints *boolean*
Tree	report-path-constraints
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-timer *number*

Description	The maximum time that the PCEP entity will wait for a response to a PCReq message.
Context	network-instance name *string* protocols pcep pcc request-timer *number*
Tree	request-timer
Range	1 to 65535
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-timer

Description	Enter the state-timer context Holds state timer information
Context	network-instance name *string* protocols pcep pcc state-timer
Tree	state-timer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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timer *number*

Description	Configure state-timer
Context	network-instance name *string* protocols pcep pcc state-timer timer *number*
Tree	timer
Range	1 to 3600
Default	180
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timer-action *keyword*

Description	State timer action remove/none
Context	network-instance name *string* protocols pcep pcc state-timer timer-action *keyword*
Tree	timer-action
Default	remove
Options	• none • remove
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-timer *number*

Description	The value is used in the case of a synchronized path computation request using the SVEC object.
Context	network-instance name *string* protocols pcep pcc sync-timer *number*
Tree	sync-timer
Range	1 to 65535
Units	seconds
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-message-rate *number*

Description	Configure unknown message rate
Context	network-instance name *string* protocols pcep pcc unknown-message-rate *number*
Tree	unknown-message-rate
Range	1 to 255
Default	10
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pim

Description	Enable the pim context
Context	network-instance name *string* protocols pim
Tree	pim
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable PIM
Context	network-instance name *string* protocols pim admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

database

Description	Enter the database context Database of PIM (S,G) (*,G), (*,*,RP)
Context	network-instance name *string* protocols pim database
Tree	database
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*

Description	Enter the group list instance
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *(ipv4-address | ipv6-address)*

Description	Multicast group IP address
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source *(ipv4-address | ipv6-address)*

Description	Source IP address
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertising-router *(ipv4-address | ipv6-address)*

Description	Router address that advertised the route to the source
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* advertising-router *(ipv4-address | ipv6-address)*
Tree	advertising-router
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-forwarding-rate *number*

Description	Current forwarding rate for the entry in bps Current forwarding rate being used by a source group(S,G) entry or (*,G) entry for the traffic in bits per second (bps), where * means any source entry.
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* current-forwarding-rate *number*
Tree	current-forwarding-rate
Default	0
Units	bps
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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immediate-outgoing-interface-count *number*

Description Number of interfaces in the immediate outgoing interface list

An outgoing list can be 'immediate' if it is built directly from the state of the relevant type as indicated by 'source-type'.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* immediate-outgoing-interface-count *number*

Tree immediate-outgoing-interface-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inherited-outgoing-interface-count *number*

Description Number of interfaces in the inherited outgoing interface list

An 'inherited' list inherits state from other types.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* inherited-outgoing-interface-count *number*

Tree inherited-outgoing-interface-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inherited-rpt-outgoing-interface-count *number*

Description Number of interfaces in the inherited outgoing interface list for (S,G,Rpt)

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* inherited-rpt-outgoing-interface-count *number*

Tree inherited-rpt-outgoing-interface-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-or-prune-interface-count *number*

Description Number of interfaces on which the router received a Join or Prune message

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* join-or-prune-interface-count *number*

Tree join-or-prune-interface-count

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keepalive-timer *number*

Description Keepalive timer for (S,G)

It Is applicable only for (S,G) entries. The (S,G) keepalive timer is updated by data being forwarded using this (S,G) forwarding state. It is used to keep (S,G) state alive in the absence of explicit (S,G) Joins.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* keepalive-timer *number*

Tree keepalive-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rx-exclude-interface-count *number*

Description Number of interfaces in the local membership exclude interface list

Local membership is the result of the local membership mechanism (MLD) running on the interface. Exclude list contains interfaces which are not interested in receiving multicast traffic for this source group entry.

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Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* local-rx-exclude-interface-count *number*
Tree	local-rx-exclude-interface-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-rx-include-interface-count *number*

Description	Number of interfaces in the local membership include interface list Local membership is the result of the local membership mechanism (MLD) running on a interface. Include list contains interfaces which are interested in receiving multicast traffic for this source group entry.
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* local-rx-include-interface-count *number*
Tree	local-rx-include-interface-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lost-assert-interface-count *number*

Description	Number of interfaces on which the router lost assert
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* lost-assert-interface-count *number*
Tree	lost-assert-interface-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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multicast-rib-nh-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	Next hop address towards the RP
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* multicast-rib-nh-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	multicast-rib-nh-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-rib-source-flags *bits*

Description	Multicast RIB (mrib) information about the source If the entry is of type 'star-g' or 'star-star-rp', it will contain information about the RP for this group.
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* multicast-rib-source-flags *bits*
Tree	multicast-rib-source-flags
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outgoing-interface name *string*

Description	List of the PIM enabled interfaces for the Multicast entry <S,G>
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* outgoing-interface name *string*
Tree	outgoing-interface
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Router interface name

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* outgoing-interface name *string*

String Length 5 to 27

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flags *bits*

Description Set of lists to which this interface belongs

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* outgoing-interface name *string* flags *bits*

Tree flags

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

spmsi-interface-name *string*

Description The outgoing S-PMSI tunnel name, if any, corresponding to the outgoing I-PMSI tunnel

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* outgoing-interface name *string* spmsi-interface-name *string*

Tree spmsi-interface-name

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register-from-anycast-rp *boolean*

Description Register message received from anycast RP

Whether a register message for this source group combination was received from the anycast RP and not from the Designated Router (DR) connected to the source. It is not applicable when the value of source-type is 'star-star-rp' or 'star-g'.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* register-from-anycast-rp *boolean*

Tree register-from-anycast-rp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-state *keyword*

Description Register state kept at the source DR

When the host starts sending multicast packets and if there are no entries programmed for that group, the source DR sends a Register packet to the RP(G). Register state transition happen based on the register stop timer and the response received from the RP.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* register-state *keyword*

Tree register-state

Options

- no-info
- join
- join-pending
- prune
- null-join

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register-stop-timer *number*

Description Time remaining before the register-state might transition to a different state

This timer has a non-zero value when the value of register-state is not 'no-info'.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* register-stop-timer *number*

Tree register-stop-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resolved-by *keyword*

Description Routing table used to resolve this entry

The value of this object will be 'multicast-route-table' if the source or Rendezvous Point (RP) is resolved by the multicast route table. The value of this object will be 'unicast-route-table' if the source or Rendezvous Point (RP) is resolved by the unicast route table. The value will be 'none' if the source or RP is unresolved.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* resolved-by *keyword*

Tree resolved-by

Options

- none
- multicast-route-table
- unicast-route-table

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rp-address *(ipv4-address | ipv6-address)*

Description IP address of the Rendezvous Point (RP)

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Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rp-address *(ipv4-address | ipv6-address)*
Tree	rp-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-neighbor-address *(ipv4-address | ipv6-address)*

Description	IP address of the Reverse Path Forwarding (RPF) neighbor
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rpf-neighbor-address *(ipv4-address | ipv6-address)*
Tree	rpf-neighbor-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-neighbor-interface-name *string*

Description	Router interface on which the RPF neighbor exists
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rpf-neighbor-interface-name *string*
Tree	rpf-neighbor-interface-name
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-neighbor-spmsi-interface-name *string*

Description	S-PMSI router interface on which the RPF neighbor exists

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Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rpf-neighbor-spmsi-interface-name *string*
Tree	rpf-neighbor-spmsi-interface-name
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpt-rpf-neighbor-address *(ipv4-address | ipv6-address)*

Description	The address of the RPF neighbor on the RPT
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rpt-rpf-neighbor-address *(ipv4-address | ipv6-address)*
Tree	rpt-rpf-neighbor-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-g-rpt-prune-interface-count *number*

Description	Number of interfaces on which the router received (S,G,Rpt) prunes
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* s-g-rpt-prune-interface-count *number*
Tree	s-g-rpt-prune-interface-count
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sg-state *keyword*

Description	Current state of the (S,G)

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Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* sg-state *keyword*

Tree sg-state

Options
- none
- active
- standby

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-flags *bits*

Description spt-bit and PruneDesired state of the entry

This object is applicable only for (S,G) entries,i.e., when source-type is 'sg'. The (S,G) 'spt-bit' is used to distinguish whether to forward on (*,*,RP) or (*,G) or on (S,G) state. It is updated when the (S,G) data comes on the RPF interface towards the source. 'rpt-prune-desired' is set according to the PruneDesired(S,G,rpt) algorithm.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* source-flags *bits*

Tree source-flags

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-type *keyword*

Description Type of this entry

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* source-type *keyword*

Tree source-type

Options
- star-star-rp
- star-g

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- sg

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

spt-switchover-threshold *number*

Description Configured threshold in kilobits per second(kbps) for the group to which this (S,G) belongs

For a group G configured with a threshold, switchover to SPT for an (S,G) is attempted only if the (S,G)'s rate exceeds this configured threshold.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* spt-switchover-threshold *number*

Tree spt-switchover-threshold

Units kbps

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Forwarding statistics for the database entry

These statistics are collected by the forwarding engine.

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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discarded-packets *number*

Description	Number of multicast packets that matched this entry but were discarded For (S,G) entries, if the traffic is getting forwarded on the SPT, the packets arriving from the RPT will be discarded.
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* statistics discarded-packets *number*
Tree	discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded-octets *number*

Description	Number of multicast octects that were forwarded to the interfaces in the outgoing interface list
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* statistics forwarded-octets *number*
Tree	forwarded-octets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded-packets *number*

Description	Number of multicast packets that were forwarded to the interfaces in the outgoing interface list
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* statistics forwarded-packets *number*
Tree	forwarded-packets
Default	0

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpf-mismatches *number*

Description	Number of multicast packets that matched this entry but did not arrive on the 'rpf-neighbor-interface-name' interface
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* statistics rpf-mismatches *number*
Tree	rpf-mismatches
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description	Time elapsed since this entry was created
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upstream-jp-state *keyword*

Description	Upstream Join-Prune state This is a result of sending PIM Join-Prune messages towards the source or the RP.

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Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* upstream-jp-state *keyword*
Tree	upstream-jp-state
Options	• not-joined • joined
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upstream-jp-timer *number*

Description	Time remaining before the router sends another Join message to its upstream neighbor
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* upstream-jp-timer *number*
Tree	upstream-jp-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upstream-rpt-jp-state *keyword*

Description	Upstream RPT Join-Prune state (S,G,rpt) Joins and Prunes are (S,G) Joins or Prunes sent on the RP tree with the RPT bit set. To either modify the results of (*,G) Joins, or to override the behavior of other upstream LAN peers.
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* upstream-rpt-jp-state *keyword*
Tree	upstream-rpt-jp-state
Options	• not-joined-star-g • not-pruned • pruned

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upstream-rpt-override-timer *number*

Description	Delay to triggered Join(S,G,rpt) messages to prevent implosions of triggered messages If non-zero, it means that the router was in 'not-pruned' state and it saw a Prune(S,G,rpt) message being sent to RPF'(S,G,rpt). If the router sees a Join(S,G,rpt) override message being sent by some other router on the LAN while the timer is still non-zero, it simply cancels the override timer. If it does not see a Join(S,G,rpt) message, then on expiry of the override timer, it sends it's own Join(S,G,rpt) message to RPF'(S,G,rpt). A similar scenario exists when RPF'(S,G,rpt) changes to become equal to RPF'(*,G).
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* upstream-rpt-override-timer *number*
Tree	upstream-rpt-override-timer
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-balance *boolean*

Description	Enables hashing balance for multicast streams This command enables multicast balancing of traffic over ECMP links based on the number of (S, G) distributed over each link. When enabled, each new multicast stream that needs to be forwarded over an ECMP link is compared to the count of (S, G) already using each link, so that the link with the fewest (S, G) is chosen.
Context	network-instance name *string* protocols pim ecmp-balance *boolean*
Tree	ecmp-balance
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-balance-hold *number*

Description Hold period for ecmp balancing

This command defines a hold period that applies after an interface has been added to the ECMP link. It is also used periodically to rebalance if channels have been removed from the ECMP link. If the ECMP interface has not changed in the hold period and if no multicast streams have been removed, then no action is taken when the timer triggers. This parameter should be used to avoid excessive changes to the multicast distribution.

Context network-instance name *string* protocols pim ecmp-balance-hold *number*

Tree ecmp-balance-hold

Range 1 to 600

Default 1

Units minutes

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-hashing

Description Enables hashing for multicast streams

This command enables hash-based multicast balancing of traffic over ECMP links and causes PIM joins to be distributed over the multiple ECMP paths based on a hash of S and G (and possibly next-hop IP address). When a link in the ECMP set is removed, the multicast flows that were using that link are redistributed over the remaining ECMP links using the same hash algorithm. When a link is added to the ECMP set new joins may be allocated to the new link based on the hash algorithm, but existing.

Context network-instance name *string* protocols pim ecmp-hashing

Tree ecmp-hashing

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rebalance *boolean*

Description	Enables rebalance for ecmp hashing
Context	network-instance name *string* protocols pim ecmp-hashing rebalance *boolean*
Tree	rebalance
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policies

Description	Enter the import-policies context Import policies.
Context	network-instance name *string* protocols pim import-policies
Tree	import-policies
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-policy *reference*

Description	Policies that apply to the Join message
Context	network-instance name *string* protocols pim import-policies join-policy *reference*
Tree	join-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

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register-policy *reference*

Description	Policies that apply to the register message
Context	network-instance name *string* protocols pim import-policies register-policy *reference*
Tree	register-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

interface interface-name *string*

Description	List of PIM interfaces
Context	network-instance name *string* protocols pim interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>
Context	network-instance name *string* protocols pim interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Administratively enable or disable the PIM protocol for this interface

Context network-instance name *string* protocols pim interface interface-name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-interval *number*

Description Interval at which the router sends PIM assert messages

Context network-instance name *string* protocols pim interface interface-name *string* assert-interval *number*

Tree assert-interval

Range 1 to 300

Default 60

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

database

Description Enter the database context

Database of PIM (S,G) (*,G), (*,*,RP) for the interface

Context network-instance name *string* protocols pim interface interface-name *string* database

Tree database

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*

Description	Enter the group list instance
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Tree	group
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *(ipv4-address | ipv6-address)*

Description	Multicast group IP address
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *(ipv4-address | ipv6-address)*

Description	Source IP address
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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assert-metric *number*

Description	The metric associated by the Multicast RIB for the route towards the source or the RP
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-metric *number*
Tree	assert-metric
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-metric-preference *number*

Description	The preference associated by the Multicast RIB for the route towards the source or the RP
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-metric-preference *number*
Tree	assert-metric-preference
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-rpt-bit *boolean*

Description	The value is 'true' if the RPT bit is set and 'false' when the RPT bit is not set
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-rpt-bit *boolean*
Tree	assert-rpt-bit
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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assert-state *keyword*

Description The ASSERT state for this entry

Where multiple PIM routers peer over a shared LAN it possible for more than one upstream router to have valid forwarding state for a packet, which can lead to packet duplication. PIM does not attempt to prevent this from occurring. Instead it detects when this has happened and elects a single forwarder amongst the upstream routers to prevent further duplication. This election is performed using PIM Assert messages. Assert messages are also received by downstream routers on the LAN, and these cause subsequent Join or Prune messages to be sent to the upstream router that won the Assert.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-state *keyword*

Tree assert-state

Options

- no-info
- lost-assert
- won-assert

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-timer *number*

Description Assert time remaining

If the value of assert-state is 'lost-assert': the time remaining before the router transitions the assert-state to 'no-info'. If the value of assert-state is 'won-assert': the time remaining before the ASSERT message is resent.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-timer *number*

Tree assert-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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assert-winner-address *(ipv4-address | ipv6-address)*

Description	The Assert Message winner's interface IP address
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-winner-address *(ipv4-address | ipv6-address)*
Tree	assert-winner-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-winner-metric *number*

Description	The ASSERT winner's metric associated by its Multicast RIB for the route towards the source or the RP
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-winner-metric *number*
Tree	assert-winner-metric
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-winner-metric-preference *number*

Description	The ASSERT winner's preference associated by its Multicast RIB for the route towards the source or the RP
Context	network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-winner-metric-preference *number*
Tree	assert-winner-metric-preference
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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assert-winner-rpt-bit *boolean*

Description The value is 'true' if the RPT bit is set and 'false' when the RPT bit is not set

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* assert-winner-rpt-bit *boolean*

Tree assert-winner-rpt-bit

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

jp-rpt-pending-timer *number*

Description The time remaining before the router transitions the value of jp-rpt-state to 'no-info'

The timer is set when the (S,G,rpt) PIM Prune message is received.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* jp-rpt-pending-timer *number*

Tree jp-rpt-pending-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

jp-rpt-state *keyword*

Description The Join Prune Rpt state for this entry on the interface

PIM Join or Prune messages are sent by the downstream routers towards the RPF neighbor. (S,G,rpt) state is a result of receiving (S,G, rpt) JP message from the downstream router on the RP tree.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* jp-rpt-state *keyword*

Tree jp-rpt-state

Options

- no-info

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- joined
- prune-pend
- pruned

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

jp-rpt-timer *number*

Description The time remaining before the router transitions the value of jp-rpt-state to 'no-info'

The timer is started or restarted when a valid Join message is received. If the value of this object is zero and jp-rpt-state is in 'join' state, it means that the downstream router sent a holdtime of '0xffff'. In this case, jp-rpt-state will not transition until an appropriate cancelling of Join or Prune message is received from the downstream router.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* jp-rpt-timer *number*

Tree jp-rpt-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

jp-state *keyword*

Description The Join Prune state for this entry on the interface

PIM Join or Prune messages are sent by the downstream routers towards the RPF neighbor.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* jp-state *keyword*

Tree jp-state

Options

- no-info
- joined

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- prune-pend
- pruned

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

jp-timer *number*

Description The time remaining before the router transitions the value of jp-state to 'no-info'

The timer is started or restarted when a valid Join message is received. If the value of this object is zero and jp-state is 'join' state, it means that the downstream router sent a holdtime of '0xffff'. In this case, jp-state will not transition until an appropriate cancelling of Join or Prune message is received.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* jp-timer *number*

Tree jp-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prune-pending-timer *number*

Description The time remaining before the router transitions the value of jp-state to 'no-info'

The timer is set when the PIM Prune message is received.

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* prune-pending-timer *number*

Tree prune-pending-timer

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rp-address *(ipv4-address | ipv6-address)*

Description IP address of the Rendezvous Point(RP)

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* rp-address *(ipv4-address | ipv6-address)*

Tree rp-address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-type *keyword*

Description Type of this entry

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* source-type *keyword*

Tree source-type

Options

- star-star-rp
- star-g
- sg

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description Time elapsed since this entry was created

Context network-instance name *string* protocols pim interface interface-name *string* database group group *(ipv4-address | ipv6-address)* source *(ipv4-address | ipv6-address)* up-time *string*

Tree up-time

String Length 20 to 32

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dr-priority *number*

Description	Designated Router (DR) priority value on this interface The value of this object specifies the value sent in PIM Hello messages and used by routers to elect the Designated Router (DR).
Context	network-instance name *string* protocols pim interface interface-name *string* dr-priority *number*
Tree	dr-priority
Range	0 to 4294967295
Default	1
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description	Interval at which the router sends the PIM hello messages
Context	network-instance name *string* protocols pim interface interface-name *string* hello-interval *number*
Tree	hello-interval
Range	0 to 255
Default	30
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-multiplier *number*

Description	Number of hello multiplier to determine the hold time

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This command configures the multiplier to determine the holdtime for a PIM neighbor on this interface. The hello-multiplier in conjunction with the hello-interval determines the holdtime for a PIM neighbor. The formula used to calculate the hello-holdtime is: (hello-interval * hello-multiplier) / 10.

Context network-instance name *string* protocols pim interface interface-name *string* hello-multiplier *number*

Tree hello-multiplier

Range 20 to 100

Default 35

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

improved-assert *boolean*

Description Whether the improved assert processing is enabled.

Context network-instance name *string* protocols pim interface interface-name *string* improved-assert *boolean*

Tree improved-assert

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 specific interface parameters

Context network-instance name *string* protocols pim interface interface-name *string* ipv4

Tree ipv4

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dr-address *string*

Description IPv4 address of designated router

Context network-instance name *string* protocols pim interface interface-name *string* ipv4 dr-address *string*

Tree dr-address

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-priority *number*

Description The operational value of DR priority on this interface

The value of this object specifies the value sent in PIM Hello messages and used by routers to elect the Designated Router (DR). This is the operational value.

Context network-instance name *string* protocols pim interface interface-name *string* ipv4 oper-priority *number*

Tree oper-priority

Range 0 to 4294967295

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the PIM IPv4 interface

Context network-instance name *string* protocols pim interface interface-name *string* ipv4 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational

- down

  Component or process is not operational

- empty

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Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

PIM Interface Statistics

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-policy-drops *number*

Description	The number of Join Prune PDU drops due to policy mismatch The number of times the join policy match resulted in dropping Join-Prune message or one of the source group contained in the message.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics join-policy-drops *number*
Tree	join-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description	Enter the received context
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-errors *number*

Description	The number of errors while processing Assert messages received on this interface

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received assert-errors *number*
Tree	assert-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-messages *number*

Description	The number of PIM Assert messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received assert-messages *number*
Tree	assert-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-checksum-discard *number*

Description	The number of discarded messages due to bad checksum received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received bad-checksum-discard *number*
Tree	bad-checksum-discard
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-encodings *number*

Description	The number of PIM messages with bad encodings received on this interface

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received bad-encodings *number*
Tree	bad-encodings
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-version-discard *number*

Description	The number of PIM messages with bad versions received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received bad-version-discard *number*
Tree	bad-version-discard
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-adv-no-router-alert *number*

Description	The number of Candidate-RP Advertisements without router alert option received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received candidate-rp-adv-no-router-alert *number*
Tree	candidate-rp-adv-no-router-alert
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-messages *number*

Description	The number of PIM hello messages received on this interface

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received hello-messages *number*
Tree	hello-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hellos-dropped *number*

Description	The number of dropped Hello messages which were received
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received hellos-dropped *number*
Tree	hellos-dropped
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-join-prune-messages *number*

Description	The number of invalid PIM Join Prune messages received on this interface A Join Prune message is invalid when the RP address in the message is not the RP for the group specified in the message. If such a message arrives, a Invalid Join Prune notification is sent.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received invalid-join-prune-messages *number*
Tree	invalid-join-prune-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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invalid-register-messages *number*

Description	The number of invalid PIM Register messages received on this interface A Register message is invalid when the RP address in the message is not the RP for the group specified in the message. If such a message arrives, a Invalid Register notification is sent.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received invalid-register-messages *number*
Tree	invalid-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune-errors *number*

Description	The number of errors while processing Join-Prune messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received join-prune-errors *number*
Tree	join-prune-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune-messages *number*

Description	The number of Join Prune messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received join-prune-messages *number*
Tree	join-prune-messages
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-unknown *number*

Description	The number of PDUs dropped due to uknown neighborship The number of PIM messages (other than Hello messages) which were received on this interface and were rejected because the adjacency with the neighbor router was not already established.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received neighbor-unknown *number*
Tree	neighbor-unknown
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

null-register-messages *number*

Description	The number of PIM Null Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received null-register-messages *number*
Tree	null-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of multicast data packets received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received packets *number*
Tree	packets

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-errors *number*

Description	The number of errors while processing Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received register-errors *number*
Tree	register-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-messages *number*

Description	The number of PIM Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received register-messages *number*
Tree	register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-errors *number*

Description	The number of errors while processing Register Stop messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received register-stop-errors *number*

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Tree	register-stop-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-messages *number*

Description	The number of PIM Register Stop messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received register-stop-messages *number*
Tree	register-stop-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-pdu-type *number*

Description	The number of packets received with an unsupported PIM type
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics received unknown-pdu-type *number*
Tree	unknown-pdu-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-policy-drops *number*

Description	The number of times the register policy match resulted in dropping Register Message
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics register-policy-drops *number*

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Tree	register-policy-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sg-count *number*

Description	The number of (S,G) entries on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics sg-count *number*
Tree	sg-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-g-count *number*

Description	The number of (*,G) entries on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics star-g-count *number*
Tree	star-g-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-star-rp-count *number*

Description	The number of (*,*,RP) entries on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics star-star-rp-count *number*

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Tree	star-star-rp-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description	Enter the transmitted context
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted
Tree	transmitted
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-messages *number*

Description	The number of PIM Assert messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted assert-messages *number*
Tree	assert-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-messages *number*

Description	The number of PIM Hello messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted hello-messages *number*
Tree	hello-messages

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune-messages *number*

Description	The number of Join Prune messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted join-prune-messages *number*
Tree	join-prune-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of multicast data packets transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-errors *number*

Description	The number of PIM errors while trasmitting PIM Register Stop messages on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted register-stop-errors *number*
Tree	register-stop-errors

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-messages *number*

Description	The number of PIM Register Stop messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4 statistics transmitted register-stop-messages *number*
Tree	register-stop-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-admin-state *keyword*

Description	Administratively enable or disable PIM IPv4 address family
Context	network-instance name *string* protocols pim interface interface-name *string* ipv4-admin-state *keyword*
Tree	ipv4-admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context IPv6 specific interface parameters

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv6
Tree	ipv6
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dr-address *string*

Description	IPv6 address of Designated Router (DR)
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 dr-address *string*
Tree	dr-address
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-priority *number*

Description	The operational value of Designated Router (DR) priority on this interface The value of this object specifies the value sent in PIM Hello messages and used by routers to elect the Designated Router (DR). This is the operational value.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 oper-priority *number*
Tree	oper-priority
Range	0 to 4294967295
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the PIM IPv6 interface

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Context network-instance name *string* protocols pim interface interface-name *string* ipv6 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

PIM Interface statistics

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-policy-drops *number*

Description The number of Join Prune PDU drops due to policy mismatch

The number of times the join policy match resulted in dropping Join-Prune message or one of the source group contained in the message.

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics join-policy-drops *number*

Tree join-policy-drops

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description Enter the received context

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received

Tree received

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-errors *number*

Description	The number of errors while processing Assert messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received assert-errors *number*
Tree	assert-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-messages *number*

Description	The number of PIM Assert messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received assert-messages *number*
Tree	assert-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-checksum-discard *number*

Description	The number of discarded messages due to bad checksum received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received bad-checksum-discard *number*
Tree	bad-checksum-discard

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-encodings *number*

Description	The number of PIM messages with bad encodings received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received bad-encodings *number*
Tree	bad-encodings
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-version-discard *number*

Description	The number of PIM messages with bad versions received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received bad-version-discard *number*
Tree	bad-version-discard
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-adv-no-router-alert *number*

Description	The number of Candidate-RP Advertisements without router alert option received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received candidate-rp-adv-no-router-alert *number*
Tree	candidate-rp-adv-no-router-alert

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-messages *number*

Description	The number of PIM hello messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received hello-messages *number*
Tree	hello-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hellos-dropped *number*

Description	The number of dropped Hello messages which were received
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received hellos-dropped *number*
Tree	hellos-dropped
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-join-prune-messages *number*

Description	The number of invalid PIM Join Prune messages received on this interface A Join Prune message is invalid when the RP address in the message is not the RP for the group specified in the message. If such a message arrives, a Invalid Join Prune notification is sent.

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Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received invalid-join-prune-messages *number*
Tree	invalid-join-prune-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-register-messages *number*

Description	The number of invalid PIM Register messages received on this interface A Register message is invalid when the RP address in the message is not the RP for the group specified in the message. If such a message arrives, a Invalid Register notification is sent.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received invalid-register-messages *number*
Tree	invalid-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune-errors *number*

Description	The number of errors while processing Join-Prune messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received join-prune-errors *number*
Tree	join-prune-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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join-prune-messages *number*

Description	The number of Join Prune messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received join-prune-messages *number*
Tree	join-prune-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-unknown *number*

Description	The number of PDUs dropped due to uknown neighborship The number of PIM messages (other than Hello messages) which were received on this interface and were rejected because the adjacency with the neighbor router was not already established.
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received neighbor-unknown *number*
Tree	neighbor-unknown
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

null-register-messages *number*

Description	The number of PIM Null Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received null-register-messages *number*
Tree	null-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of multicast data packets received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-errors *number*

Description	The number of errors while processing Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received register-errors *number*
Tree	register-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-messages *number*

Description	The number of PIM Register messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received register-messages *number*
Tree	register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-errors *number*

Description	The number of errors while processing Register Stop messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received register-stop-errors *number*
Tree	register-stop-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-messages *number*

Description	The number of PIM Register Stop messages received on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received register-stop-messages *number*
Tree	register-stop-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-pdu-type *number*

Description	The number of packets received with an unsupported PIM type
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics received unknown-pdu-type *number*
Tree	unknown-pdu-type
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-policy-drops *number*

Description The number of times the register policy match resulted in dropping Register Message

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics register-policy-drops *number*

Tree register-policy-drops

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sg-count *number*

Description The number of (S,G) entries on this interface

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics sg-count *number*

Tree sg-count

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-g-count *number*

Description The number of (*,G) entries on this interface

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics star-g-count *number*

Tree star-g-count

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-star-rp-count *number*

Description The number of (*,*,RP) entries on this interface

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics star-star-rp-count *number*

Tree star-star-rp-count

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description Enter the transmitted context

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted

Tree transmitted

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert-messages *number*

Description The number of PIM Assert messages transmitted on this interface

Context network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted assert-messages *number*

Tree assert-messages

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hello-messages *number*

Description	The number of PIM Hello messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted hello-messages *number*
Tree	hello-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune-messages *number*

Description	The number of Join Prune messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted join-prune-messages *number*
Tree	join-prune-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	The number of multicast data packets transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register-stop-errors *number*

Description	The number of PIM errors while trasmitting PIM Register Stop messages on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted register-stop-errors *number*
Tree	register-stop-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop-messages *number*

Description	The number of PIM Register Stop messages transmitted on this interface
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6 statistics transmitted register-stop-messages *number*
Tree	register-stop-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-admin-state *keyword*

Description	Administratively enable or disable PIM IPv6 address family
Context	network-instance name *string* protocols pim interface interface-name *string* ipv6-admin-state *keyword*
Tree	ipv6-admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-groups *number*

Description Limit the number of accepted (S, G) and (*, G) PIM join states on the interface

Context network-instance name *string* protocols pim interface interface-name *string* maximum-number-groups *number*

Tree maximum-number-groups

Range 1 to 16000

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-senders *keyword*

Description The way subnet matching is done for incoming data packets on this interface

Context network-instance name *string* protocols pim interface interface-name *string* multicast-senders *keyword*

Tree multicast-senders

Default auto

Options

- auto
- always
- never

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbors

Description Enter the neighbors context

Details about PIM neighbors

Context network-instance name *string* protocols pim interface interface-name *string* neighbors

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Tree	neighbors
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	Enter the neighbor list instance
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	IP address of a neighbor router
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dr-priority *number*

Description	The dr-priority value received on hello message This value indicates neighbor's DR priority which is received in the hello message. If the Hello Message did not contain the Designated Router (DR) priority field, the value of priority will be '1'.
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* dr-priority *number*

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Tree	dr-priority
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dr-priority-present *boolean*

Description	Indication of existence of DR priority on received hello message This value of indicates whether the DR priority field was present in the Hello message received from the PIM neighbor.
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* dr-priority-present *boolean*
Tree	dr-priority-present
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiry-time *number*

Description	The time until the expiry of this neighbor This value indicates the minimum time remaining before this PIM neighbor will be aged out.
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* expiry-time *number*
Tree	expiry-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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generated-id *number*

Description The Gen-Id value on the received hello message

This value indicates a randomly generated 32-bit value that is regenerated each time PIM forwarding is started or restarted on the interface, including when the router itself restarts.

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* generated-id *number*

Tree generated-id

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-time *number*

Description This value indicates the value of the hold time present in the Hello message

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time *number*

Tree hold-time

Units seconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-attribute-support *boolean*

Description Existence of Join-attribute in the received hello message

This value indicates whether the Hello Message received from the neighbor contained the Join Attribute field.

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* join-attribute-support *boolean*

Tree join-attribute-support

Configurable False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-delay *number*

Description	The lan-delay value on received hello message This value indicates the value of lan delay field present in the Hello message received from the neighbor.
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* lan-delay *number*
Tree	lan-delay
Units	milliseconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lan-delay-present *boolean*

Description	Indication of existence of Lan Delay on received hello message This value indicates whether the Hello message received from the neighbor contained the Lan Delay field.
Context	network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* lan-delay-present *boolean*
Tree	lan-delay-present
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

override-interval *number*

Description	The override interval on the received hello message

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This value indicates the value of the override interval present in the Hello message.

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* override-interval *number*

Tree override-interval

Units milliseconds

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tracking-support *boolean*

Description Indication of existence of tracking-support on received hello message

This value indicates whether the T bit in the LAN Prune Delay option was present in the Hello message. This indicates the neighbor's capability to disable Join message suppression.

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* tracking-support *boolean*

Tree tracking-support

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-time *string*

Description The time since when the neighbor has come up

This value indicates the time since this PIM neighbor (last) became a neighbor of the local router.

Context network-instance name *string* protocols pim interface interface-name *string* neighbors neighbor address *(ipv4-address-with-zone | ipv6-address-with-zone)* up-time *string*

Tree up-time

String Length 20 to 32

Configurable False

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the PIM interface

This simply tracks the operational state of the subinterface.

Context network-instance name *string* protocols pim interface interface-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 specific PIM parameters

Context network-instance name *string* protocols pim ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable PIM address family

Context network-instance name *string* protocols pim ipv4 admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description The operational state of the PIM af instance

Context network-instance name *string* protocols pim ipv4 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Global PIM address family statistics
Context	network-instance name *string* protocols pim ipv4 statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded-candidate-rp-advertisement-drops *number*

Description	The number of times the Candidate-RP Advertisements could not be forwarded
Context	network-instance name *string* protocols pim ipv4 statistics forwarded-candidate-rp-advertisement-drops *number*
Tree	forwarded-candidate-rp-advertisement-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded-candidate-rp-advertisements *number*

Description	The number of Candidate-RP Advertisements that were forwarded C-RP-Adv's are forwarded when the received advertisement has a router alert set and the destination address is not the router's local address.
Context	network-instance name *string* protocols pim ipv4 statistics forwarded-candidate-rp-advertisements *number*

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Tree	forwarded-candidate-rp-advertisements
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description	Enter the received context
Context	network-instance name *string* protocols pim ipv4 statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-drops *number*

Description	The number of received but dropped Candidate-RP Advertisements
Context	network-instance name *string* protocols pim ipv4 statistics received candidate-rp-advertisement-drops *number*
Tree	candidate-rp-advertisement-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-messages *number*

Description	The number of Candidate-RP Advertisements (C-RP-Adv) received
Context	network-instance name *string* protocols pim ipv4 statistics received candidate-rp-advertisement-messages *number*
Tree	candidate-rp-advertisement-messages
Default	0

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-pdu-interface-drops *number*

Description	The number of control PDU drops These can be on an operationally down interface or on an interface on which PIM is not enabled.
Context	network-instance name *string* protocols pim ipv4 statistics received control-pdu-interface-drops *number*
Tree	control-pdu-interface-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sg-count *number*

Description	The number of (S,G)s
Context	network-instance name *string* protocols pim ipv4 statistics sg-count *number*
Tree	sg-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-g-count *number*

Description	The number of (*,G)s
Context	network-instance name *string* protocols pim ipv4 statistics star-g-count *number*
Tree	star-g-count

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Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-star-rp-count *number*

Description	The number of (*,*,RP)s
Context	network-instance name *string* protocols pim ipv4 statistics star-star-rp-count *number*
Tree	star-star-rp-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description	Enter the transmitted context
Context	network-instance name *string* protocols pim ipv4 statistics transmitted
Tree	transmitted
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-errors *number*

Description	The number of errors while transmitting PIM Candidate-RP Advertisements
Context	network-instance name *string* protocols pim ipv4 statistics transmitted candidate-rp-advertisement-errors *number*
Tree	candidate-rp-advertisement-errors
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-messages *number*

Description	The number of Candidate-RP Advertisements transmitted
Context	network-instance name *string* protocols pim ipv4 statistics transmitted candidate-rp-advertisement-messages *number*
Tree	candidate-rp-advertisement-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

null-register-messages *number*

Description	The number of Null Register messages transmitted
Context	network-instance name *string* protocols pim ipv4 statistics transmitted null-register-messages *number*
Tree	null-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-errors *number*

Description	The number of errors while transmitting Register messages
Context	network-instance name *string* protocols pim ipv4 statistics transmitted register-errors *number*
Tree	register-errors
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-messages *number*

Description	The number of PIM Register messages transmitted
Context	network-instance name *string* protocols pim ipv4 statistics transmitted register-messages *number*
Tree	register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-ttl-drops *number*

Description	The number of TTL dropped data PDUs The number of multicast data packets which could not be encapsulated in Register messages because the Time To Live (TTL) was zero.
Context	network-instance name *string* protocols pim ipv4 statistics transmitted register-ttl-drops *number*
Tree	register-ttl-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context IPv6 specific PIM parameters
Context	network-instance name *string* protocols pim ipv6
Tree	ipv6

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable PIM address family
Context	network-instance name *string* protocols pim ipv6 admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	The operational state of the PIM af instance
Context	network-instance name *string* protocols pim ipv6 oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting

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- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Global PIM address family statistics

Context network-instance name *string* protocols pim ipv6 statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarded-candidate-rp-advertisement-drops *number*

Description	The number of times the Candidate-RP Advertisements could not be forwarded
Context	network-instance name *string* protocols pim ipv6 statistics forwarded-candidate-rp-advertisement-drops *number*
Tree	forwarded-candidate-rp-advertisement-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded-candidate-rp-advertisements *number*

Description	The number of Candidate-RP Advertisements that were forwarded C-RP-Adv's are forwarded when the received advertisement has a router alert set and the destination address is not the router's local address.
Context	network-instance name *string* protocols pim ipv6 statistics forwarded-candidate-rp-advertisements *number*
Tree	forwarded-candidate-rp-advertisements
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received

Description	Enter the received context
Context	network-instance name *string* protocols pim ipv6 statistics received
Tree	received
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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candidate-rp-advertisement-drops *number*

Description	The number of received but dropped Candidate-RP Advertisements
Context	network-instance name *string* protocols pim ipv6 statistics received candidate-rp-advertisement-drops *number*
Tree	candidate-rp-advertisement-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-messages *number*

Description	The number of Candidate-RP Advertisements (C-RP-Adv) received
Context	network-instance name *string* protocols pim ipv6 statistics received candidate-rp-advertisement-messages *number*
Tree	candidate-rp-advertisement-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-pdu-interface-drops *number*

Description	The number of control PDU drops These can be on an operationally down interface or on an interface on which PIM is not enabled.
Context	network-instance name *string* protocols pim ipv6 statistics received control-pdu-interface-drops *number*
Tree	control-pdu-interface-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sg-count *number*

Description	The number of (S,G)s
Context	network-instance name *string* protocols pim ipv6 statistics sg-count *number*
Tree	sg-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-g-count *number*

Description	The number of (*,G)s
Context	network-instance name *string* protocols pim ipv6 statistics star-g-count *number*
Tree	star-g-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

star-star-rp-count *number*

Description	The number of (*,*,RP)s
Context	network-instance name *string* protocols pim ipv6 statistics star-star-rp-count *number*
Tree	star-star-rp-count
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted

Description Enter the transmitted context

Context network-instance name *string* protocols pim ipv6 statistics transmitted

Tree transmitted

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-errors *number*

Description The number of errors while transmitting PIM Candidate-RP Advertisements

Context network-instance name *string* protocols pim ipv6 statistics transmitted candidate-rp-advertisement-errors *number*

Tree candidate-rp-advertisement-errors

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-rp-advertisement-messages *number*

Description The number of Candidate-RP Advertisements transmitted

Context network-instance name *string* protocols pim ipv6 statistics transmitted candidate-rp-advertisement-messages *number*

Tree candidate-rp-advertisement-messages

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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null-register-messages *number*

Description	The number of Null Register messages transmitted
Context	network-instance name *string* protocols pim ipv6 statistics transmitted null-register-messages *number*
Tree	null-register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-errors *number*

Description	The number of errors while transmitting Register messages
Context	network-instance name *string* protocols pim ipv6 statistics transmitted register-errors *number*
Tree	register-errors
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-messages *number*

Description	The number of PIM Register messages transmitted
Context	network-instance name *string* protocols pim ipv6 statistics transmitted register-messages *number*
Tree	register-messages
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register-ttl-drops *number*

Description	The number of TTL dropped data PDUs The number of multicast data packets which could not be encapsulated in Register messages because the Time To Live (TTL) was zero.
Context	network-instance name *string* protocols pim ipv6 statistics transmitted register-ttl-drops *number*
Tree	register-ttl-drops
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-ecmp-last-rebalance-time *string*

Description	Last system time where multicast did a ecmp rebalance on this system
Context	network-instance name *string* protocols pim multicast-ecmp-last-rebalance-time *string*
Tree	multicast-ecmp-last-rebalance-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-ecmp-next-balance-time *number*

Description	The time remaining until the next rebalance would occur.
Context	network-instance name *string* protocols pim multicast-ecmp-next-balance-time *number*
Tree	multicast-ecmp-next-balance-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-ecmp-rebalance-inprogress *boolean*

Description Whether or not multicast ECMP re-balancing is currently in progress.

Context network-instance name *string* protocols pim multicast-ecmp-rebalance-inprogress *boolean*

Tree multicast-ecmp-rebalance-inprogress

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-ecmp-rebalance-type *keyword*

Description The value of this object indicates the type of ECMP rebalance.

Context network-instance name *string* protocols pim multicast-ecmp-rebalance-type *keyword*

Tree multicast-ecmp-rebalance-type

Options

- triggered
- operator-forced

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the PIM instance

Context network-instance name *string* protocols pim oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

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Component slot is empty

- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rendezvous-points

Description Enter the rendezvous-points context

Define rendezvous points for sparse mode multicast

Context network-instance name *string* protocols pim rendezvous-points

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Tree	rendezvous-points
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static

Description	Enter the static context Static rendezvous point (RP) configuration
Context	network-instance name *string* protocols pim rendezvous-points static
Tree	static
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rendezvous-point address *(ipv4-address | ipv6-address)*

Description	List of static rendezvous points
Context	network-instance name *string* protocols pim rendezvous-points static rendezvous-point address *(ipv4-address | ipv6-address)*
Tree	rendezvous-point
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	IP address of the rendezvous point
Context	network-instance name *string* protocols pim rendezvous-points static rendezvous-point address *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Description List of multicast groups for the rendezvous point

Context network-instance name *string* protocols pim rendezvous-points static rendezvous-point address *(ipv4-address | ipv6-address)* group prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Tree group

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Description IP prefix of the multicast group

Context network-instance name *string* protocols pim rendezvous-points static rendezvous-point address *(ipv4-address | ipv6-address)* group prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssm

Description Enter the ssm context

Source Specific Multicast (SSM) configuration

Context network-instance name *string* protocols pim ssm

Tree ssm

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ssm-ranges

Description Enter the ssm-ranges context

List of accepted Source Specific Multicast (SSM) address ranges

Context network-instance name *string* protocols pim ssm ssm-ranges

Tree ssm-ranges

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-range ip-prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Description Define an accepted SSM group range

Context network-instance name *string* protocols pim ssm ssm-ranges group-range ip-prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Tree group-range

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Description A multicast IP prefix for SSM group range

Context network-instance name *string* protocols pim ssm ssm-ranges group-range ip-prefix *(ipv4-prefix-multicast | ipv6-prefix-multicast)*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Context network-instance name *string* protocols pim trace-options

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Tree	trace-options
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace

Description	Enter the trace context Tracing parameter flags
Context	network-instance name *string* protocols pim trace-options trace
Tree	trace
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

events

Description	Enable the tracing of PIM events
Context	network-instance name *string* protocols pim trace-options trace events
Tree	events
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-event-types

Description	Enable tracing for all events
Context	network-instance name *string* protocols pim trace-options trace events all-event-types
Tree	all-event-types
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description	Enable detail tracing.
Context	network-instance name *string* protocols pim trace-options trace events all-event-types detail *boolean*
Tree	detail
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *(ipv4-address | ipv6-address)*

Description	The IP multicast group address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events all-event-types group-address *(ipv4-address | ipv6-address)*
Tree	group-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable interface event tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace events all-event-types interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-address *(ipv4-address | ipv6-address)*

Description The source address for which to trace events

Context network-instance name *string* protocols pim trace-options trace events all-event-types source-address *(ipv4-address | ipv6-address)*

Tree source-address

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

event-types

Description Enter the event-types context

Enable tracing for selected event types only

Context network-instance name *string* protocols pim trace-options trace events event-types

Tree event-types

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adjacency

Description Enable tracing for adjacency events

Context network-instance name *string* protocols pim trace-options trace events event-types adjacency

Tree adjacency

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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assert

Description Enable tracing for assert events

Context network-instance name *string* protocols pim trace-options trace events event-types assert

Tree assert

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description Enable detail tracing.

Context network-instance name *string* protocols pim trace-options trace events event-types assert detail *boolean*

Tree detail

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *(ipv4-address | ipv6-address)*

Description The IP multicast group address for which to trace events

Context network-instance name *string* protocols pim trace-options trace events event-types assert group-address *(ipv4-address | ipv6-address)*

Tree group-address

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-address *(ipv4-address | ipv6-address)*

Description The source address for which to trace events

Context network-instance name *string* protocols pim trace-options trace events event-types assert source-address *(ipv4-address | ipv6-address)*

Tree source-address

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-exception

Description Enable tracing for data events

Context network-instance name *string* protocols pim trace-options trace events event-types data-exception

Tree data-exception

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description Enable detail tracing.

Context network-instance name *string* protocols pim trace-options trace events event-types data-exception detail *boolean*

Tree detail

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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group-address *(ipv4-address | ipv6-address)*

Description	The IP multicast group address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types data-exception group-address *(ipv4-address | ipv6-address)*
Tree	group-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description	The source address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types data-exception source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

database

Description	Enable tracing for db events
Context	network-instance name *string* protocols pim trace-options trace events event-types database
Tree	database
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description	Enable detail tracing.

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Context	network-instance name *string* protocols pim trace-options trace events event-types database detail *boolean*
Tree	detail
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *(ipv4-address | ipv6-address)*

Description	The IP multicast group address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types database group-address *(ipv4-address | ipv6-address)*
Tree	group-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description	The source address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types database source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description	Enable tracing for interface events
Context	network-instance name *string* protocols pim trace-options trace events event-types interface
Tree	interface

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description	Enable detail tracing.
Context	network-instance name *string* protocols pim trace-options trace events event-types interface detail *boolean*
Tree	detail
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable interface event tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace events event-types interface interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune

Description	Enable tracing for jp events
Context	network-instance name *string* protocols pim trace-options trace events event-types join-prune
Tree	join-prune
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description	Enable detail tracing.
Context	network-instance name *string* protocols pim trace-options trace events event-types join-prune detail *boolean*
Tree	detail
Default	false
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *(ipv4-address | ipv6-address)*

Description	The IP multicast group address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types join-prune group-address *(ipv4-address | ipv6-address)*
Tree	group-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description	The source address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types join-prune source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

messaging

Description Enable tracing for msg events

Context network-instance name *string* protocols pim trace-options trace events event-types messaging

Tree messaging

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pim-route-table

Description Enable tracing for rtm events

Context network-instance name *string* protocols pim trace-options trace events event-types pim-route-table

Tree pim-route-table

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description Enable detail tracing.

Context network-instance name *string* protocols pim trace-options trace events event-types pim-route-table detail *boolean*

Tree detail

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register

Description Enable tracing for register events

Context network-instance name *string* protocols pim trace-options trace events event-types register

Tree register

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detail *boolean*

Description Enable detail tracing.

Context network-instance name *string* protocols pim trace-options trace events event-types register detail *boolean*

Tree detail

Default false

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address *(ipv4-address | ipv6-address)*

Description The IP multicast group address for which to trace events

Context network-instance name *string* protocols pim trace-options trace events event-types register group-address *(ipv4-address | ipv6-address)*

Tree group-address

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-address *(ipv4-address | ipv6-address)*

Description	The source address for which to trace events
Context	network-instance name *string* protocols pim trace-options trace events event-types register source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet

Description	Enable the tracing of PIM packets
Context	network-instance name *string* protocols pim trace-options trace packet
Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-packet-types

Description	Enable tracing for all packet types
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types
Tree	all-packet-types
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces

Description	Enable packet tracing for all interfaces

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Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types all-interfaces
Tree	all-interfaces
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description	Enable tracing for sent packets
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types egress *boolean*
Tree	egress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Enable tracing for received packets
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types ingress *boolean*
Tree	ingress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types interface-name *reference*

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Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4 *boolean*

Description	Enable tracing for PIM ipv4 packets
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types ipv4 *boolean*
Tree	ipv4
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6 *boolean*

Description	Enable tracing for PIM ipv6 packets
Context	network-instance name *string* protocols pim trace-options trace packet all-packet-types ipv6 *boolean*
Tree	ipv6
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-types

Description	Enter the packet-types context Enable tracing for selected packet types only

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Context network-instance name *string* protocols pim trace-options trace packet packet-types

Tree packet-types

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

assert

Description Enable tracing for assert packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types assert

Tree assert

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces

Description Enable packet tracing for all interfaces

Context network-instance name *string* protocols pim trace-options trace packet packet-types assert all-interfaces

Tree all-interfaces

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description Enable tracing for sent packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types assert egress *boolean*

Tree egress

Default true

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Enable tracing for received packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types assert ingress *boolean*
Tree	ingress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet packet-types assert interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4 *boolean*

Description	Enable tracing for PIM ipv4 packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types assert ipv4 *boolean*
Tree	ipv4
Default	true

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6 *boolean*

Description	Enable tracing for PIM ipv6 packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types assert ipv6 *boolean*
Tree	ipv6
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello

Description	Enable tracing for hello packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types hello
Tree	hello
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces

Description	Enable packet tracing for all interfaces
Context	network-instance name *string* protocols pim trace-options trace packet packet-types hello all-interfaces
Tree	all-interfaces
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description	Enable tracing for sent packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types hello egress *boolean*
Tree	egress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Enable tracing for received packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types hello ingress *boolean*
Tree	ingress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet packet-types hello interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4 *boolean*

Description Enable tracing for PIM ipv4 packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types hello ipv4 *boolean*

Tree ipv4

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6 *boolean*

Description Enable tracing for PIM ipv6 packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types hello ipv6 *boolean*

Tree ipv6

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

join-prune

Description Enable tracing for join-prune packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types join-prune

Tree join-prune

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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all-interfaces

Description Enable packet tracing for all interfaces

Context network-instance name *string* protocols pim trace-options trace packet packet-types join-prune all-interfaces

Tree all-interfaces

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description Enable tracing for sent packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types join-prune egress *boolean*

Tree egress

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description Enable tracing for received packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types join-prune ingress *boolean*

Tree ingress

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet packet-types join-prune interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4 *boolean*

Description	Enable tracing for PIM ipv4 packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types join-prune ipv4 *boolean*
Tree	ipv4
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6 *boolean*

Description	Enable tracing for PIM ipv6 packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types join-prune ipv6 *boolean*
Tree	ipv6
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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register

Description Enable tracing for register packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register

Tree register

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces

Description Enable packet tracing for all interfaces

Context network-instance name *string* protocols pim trace-options trace packet packet-types register all-interfaces

Tree all-interfaces

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description Enable tracing for sent packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register egress *boolean*

Tree egress

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ingress *boolean*

Description	Enable tracing for received packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register ingress *boolean*
Tree	ingress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4 *boolean*

Description	Enable tracing for PIM ipv4 packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register ipv4 *boolean*
Tree	ipv4
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6 *boolean*

Description Enable tracing for PIM ipv6 packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register ipv6 *boolean*

Tree ipv6

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

register-stop

Description Enable tracing for register-stop packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register-stop

Tree register-stop

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

all-interfaces

Description Enable packet tracing for all interfaces

Context network-instance name *string* protocols pim trace-options trace packet packet-types register-stop all-interfaces

Tree all-interfaces

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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egress *boolean*

Description	Enable tracing for sent packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register-stop egress *boolean*
Tree	egress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Enable tracing for received packets
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register-stop ingress *boolean*
Tree	ingress
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *reference*

Description	Enable packet tracing for a specific interface
Context	network-instance name *string* protocols pim trace-options trace packet packet-types register-stop interface-name *reference*
Tree	interface-name
Reference	network-instance name *string* protocols pim interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4 *boolean*

Description Enable tracing for PIM ipv4 packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register-stop ipv4 *boolean*

Tree ipv4

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6 *boolean*

Description Enable tracing for PIM ipv6 packets

Context network-instance name *string* protocols pim trace-options trace packet packet-types register-stop ipv6 *boolean*

Tree ipv6

Default true

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp

Description Per network instance PTP configuration and state

Context network-instance name *string* protocols ptp

Tree ptp

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of PTP within the network instance

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This is dependent on the administrative state of the ptp instance, the administrative state of the this network-instance under ptp, and the operational state of the network-instance itself.

Context network-instance name *string* protocols ptp oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-limit *number*

Description	Number of discovered peers allowed for network-instance If not defined then the number is not restricted within this network-instance.
Context	network-instance name *string* protocols ptp peer-limit *number*
Tree	peer-limit
Range	1 to 512
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address-ipv4 *string*

Description	IPv4 source address to be used for PTP messages sent in this network-instance Only unicast IP supported.
Context	network-instance name *string* protocols ptp source-address-ipv4 *string*
Tree	source-address-ipv4
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address-ipv6 *string*

Description	IPv6 source address to be used for PTP messages sent in this network-instance Only unicast IP supported.
Context	network-instance name *string* protocols ptp source-address-ipv6 *string*
Tree	source-address-ipv6
Configurable	True

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stp

Description	Configuration and state of the STP protocol
Context	network-instance name *string* protocols stp
Tree	stp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

admin-state *keyword*

Description	Administratively enable or disable the stp instance When STP on the network instance is administratively disabled, any BPDUs are forwarded transparently. When STP on the network instance is administratively enabled, but the administrative state on a sub-interface is disabled, BPDUs received on such a subinterface are discarded.
Context	network-instance name *string* protocols stp admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-address *string*

Description	A 48-bit administered MAC Address assigned to the bridge The bridge mac address cannot be a broadcast or multicast address. The default is the base mac address of the switch. On configuring bridge-address, reserved(0) extended-system-id will be used in the bridge-identifier
Context	network-instance name *string* protocols stp bridge-address *string*
Tree	bridge-address
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-id *string*

Description	The identifier of the bridge The bridge identifier of the bridge in the configuration BPDUs transmitted for the segment to which the port is attached
Context	network-instance name *string* protocols stp bridge-id *string*
Tree	bridge-id
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-priority *number*

Description	Priority component of the Bridge Identifier
Context	network-instance name *string* protocols stp bridge-priority *number*
Tree	bridge-priority
Range	0 to 61440
Default	32768
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-internal-root-cost *number*

Description	The cost of the path to the CIST regional root bridge
Context	network-instance name *string* protocols stp cist-internal-root-cost *number*
Tree	cist-internal-root-cost
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-regional-root *string*

Description	The bridge identifier of the regional root of the CIST spanning tree

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Context	network-instance name *string* protocols stp cist-regional-root *string*
Tree	cist-regional-root
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-regional-root-port *number*

Description	The port number of the port with the lowest cost path
Context	network-instance name *string* protocols stp cist-regional-root-port *number*
Tree	cist-regional-root-port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-remaining-hop-count *number*

Description	The remaining number of hops
Context	network-instance name *string* protocols stp cist-remaining-hop-count *number*
Tree	cist-remaining-hop-count
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-root *string*

Description	The identifier of the designated bridge The bridge identifier of the bridge recorded as the root in the configuration BPDUs transmitted by the designated bridge for the segment to which the port is attached
Context	network-instance name *string* protocols stp designated-root *string*
Tree	designated-root
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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forward-delay *number*

Description	The delay used by STP bridges to transition root and designated ports to forwarding
Context	network-instance name *string* protocols stp forward-delay *number*
Tree	forward-delay
Range	4 to 30
Default	15
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hello-time *number*

Description	The interval between periodic transmissions of configuration messages by designated ports
Context	network-instance name *string* protocols stp hello-time *number*
Tree	hello-time
Range	1 to 10
Default	2
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hold-count *number*

Description	The maximum number of BPDUs per second that the switch can send from an interface
Context	network-instance name *string* protocols stp hold-count *number*
Tree	hold-count
Range	1 to 10
Default	6
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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hold-time *number*

Description	This time value determines the interval length during which no more than two Configuration bridge PDUs shall be transmitted by this node
Context	network-instance name *string* protocols stp hold-time *number*
Tree	hold-time
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

max-age *number*

Description	The maximum age of the information transmitted by the bridge when it is the root bridge
Context	network-instance name *string* protocols stp max-age *number*
Tree	max-age
Range	6 to 40
Default	20
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-forward-delay *number*

Description	The amount of time it takes to change its state when moving towards the forwarding state
Context	network-instance name *string* protocols stp oper-forward-delay *number*
Tree	oper-forward-delay
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-hello-time *number*

Description	The amount of time between the transmission of Configuration BPDUs
Context	network-instance name *string* protocols stp oper-hello-time *number*

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Tree	oper-hello-time
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-max-age *number*

Description	The maximum age of the stp information learned
Context	network-instance name *string* protocols stp oper-max-age *number*
Tree	oper-max-age
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-state *keyword*

Description	Stp Operational status
Context	network-instance name *string* protocols stp oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded

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- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

root-cost *number*

Description The cost of the path to the root as seen from this bridge

Context network-instance name *string* protocols stp root-cost *number*

Tree root-cost

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

root-port *number*

Description The port number of the port which offers the lowest cost path from this bridge to the root bridge

Context network-instance name *string* protocols stp root-port *number*

Tree root-port

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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time-since-topology-change *string*

Description	Time since last topology change was detected by bridge entity
Context	network-instance name *string* protocols stp time-since-topology-change *string*
Tree	time-since-topology-change
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

topology-change-active *boolean*

Description	Indication topology change is currently in progress
Context	network-instance name *string* protocols stp topology-change-active *boolean*
Tree	topology-change-active
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

topology-changes *number*

Description	The total number of topology changes detected by this bridge since the management entity was last reset or initialized
Context	network-instance name *string* protocols stp topology-changes *number*
Tree	topology-changes
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

trace-options

Description	Enter the trace-options context Interface Stp debug trace options
Context	network-instance name *string* protocols stp trace-options
Tree	trace-options

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Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

trace *keyword*

Description List of tracing options

Context network-instance name *string* protocols stp trace-options trace *keyword*

Tree trace

Options

- all

  Trace all events and packets
- bpdu

  Trace stp rcvd/txmitted BPDU events
- connectivity

  Trace stp core-connectivity events
- exception

  Trace stp exception events
- fsm-state

  Trace stp fsm-state-changes events
- fsm-timers

  Trace stp fsm-timer events
- port-role

  Trace stp port-role events
- port-state

  Trace stp port-state events

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

route-limit family *keyword*

Description List of route limits that apply to the network-instance

Context network-instance name *string* route-limit family *keyword*

Tree route-limit

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

family *keyword*

Description The family to which a limit applies

Context network-instance name *string* route-limit family *keyword*

Options

- ipv4
- ipv6

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description The maximum number of unique prefixes that will be accepted for the family

Context network-instance name *string* route-limit family *keyword* maximum *number*

Tree maximum

Default 0

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-exceeded *boolean*

Description	Reads true when the number of submitted routes is above the configured maximum and false when it is equal or below
Context	network-instance name *string* route-limit family *keyword* maximum-exceeded *boolean*
Tree	maximum-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-only *boolean*

Description	When configured true and there are excess routes over the maximum, the condition is recorded but the excess routes are still programmed When configured false, excess routes over the maximum are not programmed into the IP FIB table unless the excess routes are local, host or linux routes.
Context	network-instance name *string* route-limit family *keyword* warning-only *boolean*
Tree	warning-only
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

warning-threshold-percent *number*

Description	Sets the threshold for generating a log event when the current route count reaches maximum times this percentage

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Context	network-instance name *string* route-limit family *keyword* warning-threshold-percent *number*
Tree	warning-threshold-percent
Range	1 to 100
Default	90
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table

Description	Enter the route-table context
Context	network-instance name *string* route-table
Tree	route-table
Configurable	False
Platforms	Supported on all platforms

ipv4-unicast

Description	Enter the ipv4-unicast context The container for the IPv4 unicast routing table of the network instance.
Context	network-instance name *string* route-table ipv4-unicast
Tree	ipv4-unicast
Configurable	False
Platforms	Supported on all platforms

prefix-length-distribution

Description	Enter the prefix-length-distribution context
Context	network-instance name *string* route-table ipv4-unicast prefix-length-distribution
Tree	prefix-length-distribution

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length prefix-length *number*

Description	List of prefix lengths
Context	network-instance name *string* route-table ipv4-unicast prefix-length-distribution length prefix-length *number*
Tree	length
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-length *number*

Description	The prefix length of the route
Context	network-instance name *string* route-table ipv4-unicast prefix-length-distribution length prefix-length *number*
Range	0 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-routes *number*

Description	Total number of prefixes with this prefix length that were submitted to fib-mgr and that fib-mgr successfully installed as active routes
Context	network-instance name *string* route-table ipv4-unicast prefix-length-distribution length prefix-length *number* active-routes *number*
Tree	active-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Description	Enter the route list instance
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Tree	route
Configurable	False
Platforms	Supported on all platforms

ipv4-prefix *string*

Description	The IPv4 prefix associated with the route.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Configurable	False
Platforms	Supported on all platforms

route-type *identityref*

Description	The type of the IP route

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Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2

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- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

route-owner *string*

Description The application name of the owner of the IP route

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Configurable False

Platforms Supported on all platforms

id *number*

Description An owner-assigned index value that is unique for each of the routes for a given prefix.

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Configurable False

Platforms Supported on all platforms

origin-network-instance *reference*

Description Origin network instance of the route (where it was originally learned or configured)

If the route was leaked from another network instance, the value of this leaf reflects the network-instance from which it was learned. If it was not leaked the value is the same as the parent network-instance.

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Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

active *boolean*

Description	If set to true then the route is installed as the active route for the IP prefix in the FIB. A route can be inactive because there is a more preferred route for the same prefix or else its next-hops are unresolved.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* active *boolean*
Tree	active
Configurable	False
Platforms	Supported on all platforms

counters

Description	Enter the counters context Packet forwarding counters
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters
Tree	counters
Configurable	False
Platforms	Supported on all platforms

octets-forwarded *number*

Description	The number of octets in the packets that were forwarded
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False

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Platforms	Supported on all platforms

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available statistics resource was not available for this forwarding object
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed-locations *string*

Description	List of forwarding complexes that reported a stat resource allocation failure. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters resource-allocation-failed-locations *string*
Tree	resource-allocation-failed-locations
Configurable	False
Platforms	Supported on all platforms

dynamic-load-balancing *boolean*

Description	Set to true if the route is covered by a dynamic-load-balancing prefix configured in this network-instance

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True does not guarantee that the route is programmed for DLB. This information is found in the NHG used by the route

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* dynamic-load-balancing *boolean*

Tree dynamic-load-balancing

Configurable False

Platforms Supported on all platforms

fib-programming

Description Enter the fib-programming context

Container for state related to the FIB programming of the object

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming

Tree fib-programming

Configurable False

Platforms Supported on all platforms

last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms Supported on all platforms

last-failed-operation-type *keyword*

Description The last operation type that failed.

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

Options

- add

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The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

- delete

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The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming pending-operation-type *keyword*

Tree pending-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

suppressed *boolean*

Description When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table

Context network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming suppressed *boolean*

Tree suppressed

Configurable False

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Platforms	Supported on all platforms

gribi-metadata *binary*

Description	Metadata persistently stored with the entry.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* gribi-metadata *binary*
Tree	gribi-metadata
String Length	0 to 8
Configurable	False
Platforms	Supported on all platforms

group-based-policy-tag *number*

Description	The group-based-policy tag value associated to this IP route
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* group-based-policy-tag *number*
Tree	group-based-policy-tag
Range	0 to 65535
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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	IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

last-app-update *string*

Description	The date and time of the last update of this route by the owning application or protocol.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* last-app-update *string*
Tree	last-app-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

leakable *boolean*

Description	Reads true when the route was matched and accepted by the route-leaking inter-instance export-policy
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* leakable *boolean*
Tree	leakable
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaked *boolean*

Description	Reads true when the route was leaked into this network-instance from another network-instance

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Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* leaked *boolean*
Tree	leaked
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	The metric of the IP route. In general, when comparing two routes with the same owner and preference, the route with the lower metric is the one that is activated and used for forwarding.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	The next-hop-group indirection object used by this route.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop-group-network-instance *reference*

Description	The network instance where the next-hop-group can be found. If unspecified, the next hop group is in the local network instance.

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Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* next-hop-group-network-instance *reference*
Tree	next-hop-group-network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

preference *number*

Description	The IP route table preference. This is sometimes called the administrative distance of the route. In general, when comparing any two routes, the route with the lower preference is the one that is activated and used for forwarding.
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* preference *number*
Tree	preference
Configurable	False
Platforms	Supported on all platforms

resilient-hash *boolean*

Description	Set to true if the route is covered by a resilient-hash-prefix entry or policy action applied in this network-instance
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* resilient-hash *boolean*
Tree	resilient-hash
Configurable	False
Platforms	Supported on all platforms

route-limit-exceeded *boolean*

Description	Reads true when, at the time the route was received by FIB manager, the current route count was over the specified maximum for the family
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* route-limit-exceeded *boolean*
Tree	route-limit-exceeded

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target-network-instances *reference*

Description	List of network-instances that have imported this route as a result of matching and accepting it in their inter-instance import-policy
Context	network-instance name *string* route-table ipv4-unicast route ipv4-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* target-network-instances *reference*
Tree	target-network-instances
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

route-summary

Description	Enter the route-summary context Route summary information
Context	network-instance name *string* route-table ipv4-unicast route-summary
Tree	route-summary
Configurable	False
Platforms	Supported on all platforms

route-type ip-route-type-name *identityref*

Description	Enter the route-type list instance
Context	network-instance name *string* route-table ipv4-unicast route-summary route-type ip-route-type-name *identityref*
Tree	route-type
Configurable	False
Platforms	Supported on all platforms

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ip-route-type-name *identityref*

Description IP route type

Context network-instance name *string* route-table ipv4-unicast route-summary route-type ip-route-type-name *identityref*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

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Route added by an agent application using the NDK

- ospfv2

  OSPFv2

- ospfv3

  OSPFv3

- sr-submgmt

  Subscriber-management route

- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

active-routes *number*

Description Total number of prefixes associated with this route type that were submitted to fib-mgr and that fib-mgr successfully installed as active routes

Context network-instance name *string* route-table ipv4-unicast route-summary route-type ip-route-type-name *identityref* active-routes *number*

Tree active-routes

Configurable False

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context network-instance name *string* route-table ipv4-unicast statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

active-routes *number*

Description The total number of prefixes, belonging to this address family, with an active route in the FIB.

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Context	network-instance name *string* route-table ipv4-unicast statistics active-routes *number*
Tree	active-routes
Configurable	False
Platforms	Supported on all platforms

active-routes-with-ecmp *number*

Description	The total number of prefixes, belonging to this address family, that have an active route in the FIB with multiple ECMP next-hops.
Context	network-instance name *string* route-table ipv4-unicast statistics active-routes-with-ecmp *number*
Tree	active-routes-with-ecmp
Configurable	False
Platforms	Supported on all platforms

dynamic-load-balancing-routes *number*

Description	The total number of prefixes, belonging to this address family, with an active route in the FIB that has dynamic LB support This count excludes routes with dynamic load-balancing behavior enabled by configuration in another network-instance and then leaked into this network-instance.
Context	network-instance name *string* route-table ipv4-unicast statistics dynamic-load-balancing-routes *number*
Tree	dynamic-load-balancing-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-failed-routes *number*

Description	The total number of prefixes, belonging to this address family, that were not installed successfully because datapath resources were unavailable

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Context	network-instance name *string* route-table ipv4-unicast statistics fib-failed-routes *number*
Tree	fib-failed-routes
Configurable	False
Platforms	Supported on all platforms

fib-suppressed-routes *number*

Description	The total number of prefixes, belonging to this address family, that fib-mgr purposely did not try to install in the datapath
Context	network-instance name *string* route-table ipv4-unicast statistics fib-suppressed-routes *number*
Tree	fib-suppressed-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaked-routes *number*

Description	The total number of prefixes, belonging to this address family, that have been leaked into this network-instance from another network-instance
Context	network-instance name *string* route-table ipv4-unicast statistics leaked-routes *number*
Tree	leaked-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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resilient-hash-routes *number*

Description The total number of prefixes, belonging to this address family, with an active route in the FIB that have resilient hash support

This count excludes routes with resilient hashing behavior enabled by configuration in another network-instance and then leaked into this network-instance.

Context network-instance name *string* route-table ipv4-unicast statistics resilient-hash-routes *number*

Tree resilient-hash-routes

Configurable False

Platforms Supported on all platforms

routes-with-per-prefix-statistics *number*

Description The total number of prefixes, belonging to this address family, that have counter resources allocated for statistics collection

Context network-instance name *string* route-table ipv4-unicast statistics routes-with-per-prefix-statistics *number*

Tree routes-with-per-prefix-statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-routes *number*

Description The total number of routes, active and inactive, belonging to this address family, that are present in the routing table

Context network-instance name *string* route-table ipv4-unicast statistics total-routes *number*

Tree total-routes

Default 0

Configurable False

Platforms Supported on all platforms

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ipv6-unicast

Description Enter the ipv6-unicast context

The container for the IPv6 unicast routing table of the network instance.

Context network-instance name *string* route-table ipv6-unicast

Tree ipv6-unicast

Configurable False

Platforms Supported on all platforms

prefix-length-distribution

Description Enter the prefix-length-distribution context

Context network-instance name *string* route-table ipv6-unicast prefix-length-distribution

Tree prefix-length-distribution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

length prefix-length *number*

Description List of prefix lengths

Context network-instance name *string* route-table ipv6-unicast prefix-length-distribution length prefix-length *number*

Tree length

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-length *number*

Description	The prefix length of the route
Context	network-instance name *string* route-table ipv6-unicast prefix-length-distribution length prefix-length *number*
Range	0 to 128
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-routes *number*

Description	Total number of prefixes with this prefix length that were submitted to fib-mgr and that fib-mgr successfully installed as active routes
Context	network-instance name *string* route-table ipv6-unicast prefix-length-distribution length prefix-length *number* active-routes *number*
Tree	active-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Description	Enter the route list instance
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Tree	route

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Configurable False

Platforms Supported on all platforms

ipv6-prefix *string*

Description The IPv6 prefix associated with the route.

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Configurable False

Platforms Supported on all platforms

route-type *identityref*

Description The type of the IP route

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Options

- aggregate

  Locally configured aggregate route
- arp-nd

  IP route added by ARP ND.
- bgp

  Border Gateway Protocol version 4
- bgp-evpn

  BGP Ethernet VPN (EVPN) Interface-less
- bgp-evpn-iff

  BGP Ethernet VPN (EVPN) Interface-ful
- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

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A gRIBI route

- host

  A host route

- isis

  IS-IS

- local

  A directly connected route

- linux

  IP route added by the linux kernel.

- ndk1

  Route added by an agent application using the NDK

- ndk2

  Route added by an agent application using the NDK

- ospfv2

  OSPFv2

- ospfv3

  OSPFv3

- sr-submgmt

  Subscriber-management route

- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

route-owner *string*

Description The application name of the owner of the IP route

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*

Configurable False

Platforms Supported on all platforms

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id *number*

Description	An owner-assigned index value that is unique for each of the routes for a given prefix.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Configurable	False
Platforms	Supported on all platforms

origin-network-instance *reference*

Description	Origin network instance of the route (where it was originally learned or configured) If the route was leaked from another network instance, the value of this leaf reflects the network-instance from which it was learned. If it was not leaked the value is the same as the parent network-instance.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference*
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

active *boolean*

Description	If set to true then the route is installed as the active route for the IP prefix in the FIB. A route can be inactive because there is a more preferred route for the same prefix or else its next-hops are unresolved.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* active *boolean*
Tree	active
Configurable	False
Platforms	Supported on all platforms

counters

Description	Enter the counters context

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	Packet forwarding counters
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters
Tree	counters
Configurable	False
Platforms	Supported on all platforms

octets-forwarded *number*

Description	The number of octets in the packets that were forwarded
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available statistics resource was not available for this forwarding object
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters resource-allocation-failed *boolean*
Tree	resource-allocation-failed

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Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed-locations *string*

Description	List of forwarding complexes that reported a stat resource allocation failure. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* counters resource-allocation-failed-locations *string*
Tree	resource-allocation-failed-locations
Configurable	False
Platforms	Supported on all platforms

dynamic-load-balancing *boolean*

Description	Set to true if the route is covered by a dynamic-load-balancing prefix configured in this network-instance True does not guarantee that the route is programmed for DLB. This information is found in the NHG used by the route
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* dynamic-load-balancing *boolean*
Tree	dynamic-load-balancing
Configurable	False
Platforms	Supported on all platforms

fib-programming

Description	Enter the fib-programming context Container for state related to the FIB programming of the object
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming
Tree	fib-programming
Configurable	False
Platforms	Supported on all platforms

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last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms Supported on all platforms

last-failed-operation-type *keyword*

Description The last operation type that failed.

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

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Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming pending-operation-type *keyword*

Tree pending-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

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- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

suppressed *boolean*

Description When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* fib-programming suppressed *boolean*

Tree suppressed

Configurable False

Platforms Supported on all platforms

gribi-metadata *binary*

Description Metadata persistently stored with the entry.

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* gribi-metadata *binary*

Tree gribi-metadata

String Length 0 to 8

Configurable False

Platforms Supported on all platforms

group-based-policy-tag *number*

Description The group-based-policy tag value associated to this IP route

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* group-based-policy-tag *number*

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Tree	group-based-policy-tag
Range	0 to 65535
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

last-app-update *string*

Description	The date and time of the last update of this route by the owning application or protocol.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* last-app-update *string*
Tree	last-app-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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leakable *boolean*

Description Reads true when the route was matched and accepted by the route-leaking inter-instance export-policy

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* leakable *boolean*

Tree leakable

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaked *boolean*

Description Reads true when the route was leaked into this network-instance from another network-instance

Context network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* leaked *boolean*

Tree leaked

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description The metric of the IP route. In general, when comparing two routes with the same owner and preference, the route with the lower metric is the one that is activated and used for forwarding.

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Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	The next-hop-group indirection object used by this route.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop-group-network-instance *reference*

Description	The network instance where the next-hop-group can be found. If unspecified, the next hop group is in the local network instance.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* next-hop-group-network-instance *reference*
Tree	next-hop-group-network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

preference *number*

Description	The IP route table preference. This is sometimes called the administrative distance of the route. In general, when comparing any two routes, the route with the lower preference is the one that is activated and used for forwarding.
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* preference *number*
Tree	preference

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Configurable	False
Platforms	Supported on all platforms

resilient-hash *boolean*

Description	Set to true if the route is covered by a resilient-hash-prefix entry or policy action applied in this network-instance
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* resilient-hash *boolean*
Tree	resilient-hash
Configurable	False
Platforms	Supported on all platforms

route-limit-exceeded *boolean*

Description	Reads true when, at the time the route was received by FIB manager, the current route count was over the specified maximum for the family
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* route-limit-exceeded *boolean*
Tree	route-limit-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target-network-instances *reference*

Description	List of network-instances that have imported this route as a result of matching and accepting it in their inter-instance import-policy
Context	network-instance name *string* route-table ipv6-unicast route ipv6-prefix *string* route-type *identityref* route-owner *string* id *number* origin-network-instance *reference* target-network-instances *reference*
Tree	target-network-instances
Reference	network-instance name *string*

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Configurable	False
Platforms	Supported on all platforms

route-summary

Description	Enter the route-summary context Route summary information
Context	network-instance name *string* route-table ipv6-unicast route-summary
Tree	route-summary
Configurable	False
Platforms	Supported on all platforms

route-type ip-route-type-name *identityref*

Description	Enter the route-type list instance
Context	network-instance name *string* route-table ipv6-unicast route-summary route-type ip-route-type-name *identityref*
Tree	route-type
Configurable	False
Platforms	Supported on all platforms

ip-route-type-name *identityref*

Description	IP route type
Context	network-instance name *string* route-table ipv6-unicast route-summary route-type ip-route-type-name *identityref*
Options	• aggregate Locally configured aggregate route • arp-nd IP route added by ARP ND. • bgp Border Gateway Protocol version 4 • bgp-evpn BGP Ethernet VPN (EVPN) Interface-less • bgp-evpn-iff BGP Ethernet VPN (EVPN) Interface-ful

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- bgp-evpn-ifl-host

  BGP Ethernet VPN (EVPN) Interface-less Host
- bgp-ipvpn

  BGP IP VPN
- bgp-label

  BGP labeled-unicast
- dhcp

  IP (default) route added by DHCP.
- gribi

  A gRIBI route
- host

  A host route
- isis

  IS-IS
- local

  A directly connected route
- linux

  IP route added by the linux kernel.
- ndk1

  Route added by an agent application using the NDK
- ndk2

  Route added by an agent application using the NDK
- ospfv2

  OSPFv2
- ospfv3

  OSPFv3
- sr-submgmt

  Subscriber-management route
- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.
- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

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active-routes *number*

Description	Total number of prefixes associated with this route type that were submitted to fib-mgr and that fib-mgr successfully installed as active routes
Context	network-instance name *string* route-table ipv6-unicast route-summary route-type ip-route-type-name *identityref* active-routes *number*
Tree	active-routes
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* route-table ipv6-unicast statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-routes *number*

Description	The total number of prefixes, belonging to this address family, with an active route in the FIB.
Context	network-instance name *string* route-table ipv6-unicast statistics active-routes *number*
Tree	active-routes
Configurable	False
Platforms	Supported on all platforms

active-routes-with-ecmp *number*

Description	The total number of prefixes, belonging to this address family, that have an active route in the FIB with multiple ECMP next-hops.
Context	network-instance name *string* route-table ipv6-unicast statistics active-routes-with-ecmp *number*
Tree	active-routes-with-ecmp
Configurable	False
Platforms	Supported on all platforms

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dynamic-load-balancing-routes *number*

Description The total number of prefixes, belonging to this address family, with an active route in the FIB that has dynamic LB support

This count excludes routes with dynamic load-balancing behavior enabled by configuration in another network-instance and then leaked into this network-instance.

Context network-instance name *string* route-table ipv6-unicast statistics dynamic-load-balancing-routes *number*

Tree dynamic-load-balancing-routes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-failed-routes *number*

Description The total number of prefixes, belonging to this address family, that were not installed successfully because datapath resources were unavailable

Context network-instance name *string* route-table ipv6-unicast statistics fib-failed-routes *number*

Tree fib-failed-routes

Configurable False

Platforms Supported on all platforms

fib-suppressed-routes *number*

Description The total number of prefixes, belonging to this address family, that fib-mgr purposely did not try to install in the datapath

Context network-instance name *string* route-table ipv6-unicast statistics fib-suppressed-routes *number*

Tree fib-suppressed-routes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leaked-routes *number*

Description The total number of prefixes, belonging to this address family, that have been leaked into this network-instance from another network-instance

Context network-instance name *string* route-table ipv6-unicast statistics leaked-routes *number*

Tree leaked-routes

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resilient-hash-routes *number*

Description The total number of prefixes, belonging to this address family, with an active route in the FIB that have resilient hash support

This count excludes routes with resilient hashing behavior enabled by configuration in another network-instance and then leaked into this network-instance.

Context network-instance name *string* route-table ipv6-unicast statistics resilient-hash-routes *number*

Tree resilient-hash-routes

Configurable False

Platforms Supported on all platforms

routes-with-per-prefix-statistics *number*

Description The total number of prefixes, belonging to this address family, that have counter resources allocated for statistics collection

Context network-instance name *string* route-table ipv6-unicast statistics routes-with-per-prefix-statistics *number*

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Tree	routes-with-per-prefix-statistics
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-routes *number*

Description	The total number of routes, active and inactive, belonging to this address family, that are present in the routing table
Context	network-instance name *string* route-table ipv6-unicast statistics total-routes *number*
Tree	total-routes
Default	0
Configurable	False
Platforms	Supported on all platforms

mpls

Description	Enter the mpls context The container for the MPLS routing table of the network instance.
Context	network-instance name *string* route-table mpls
Tree	mpls
Configurable	False
Platforms	Supported on all platforms

label-entry label-value *number*

Description	Enter the label-entry list instance
Context	network-instance name *string* route-table mpls label-entry label-value *number*
Tree	label-entry
Configurable	False
Platforms	Supported on all platforms

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label-value *number*

Description The MPLS label value

Context network-instance name *string* route-table mpls label-entry label-value *number*

Range 16 to 1048575

Configurable False

Platforms Supported on all platforms

entry-type *identityref*

Description The entry type of the MPLS FIB entry.

Context network-instance name *string* route-table mpls label-entry label-value *number* entry-type *identityref*

Tree entry-type

Options

- esi

  ESI mpls label entry, used by BGP-EVPN
- pseudowire

  Pseudowire mpls label entry
- ldp

  Label distribution protocol
- mldp

  Multicast label distribution protocol
- network-instance

  Network Instance mpls label entry, used by EVPN or IP-VPN
- rsvp-te

  Tunnel signaled using Resource Reservation Protocol with Traffic Engineering
- sr-mpls

  Segment routing using MPLS dataplane, programmed by segment routing manager.
- static-mpls

  Locally configured static MPLS route.

Configurable False

Platforms Supported on all platforms

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fib-programming

Description Enter the fib-programming context

Container for state related to the FIB programming of the object

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming

Tree fib-programming

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-operation-type *keyword*

Description The last operation type that failed.

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

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There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

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There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming pending-operation-type *keyword*

Tree pending-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table

Context network-instance name *string* route-table mpls label-entry label-value *number* fib-programming suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-app-update *string*

Description	The date and time of the last update of this MPLS label entry by the owning application or protocol.
Context	network-instance name *string* route-table mpls label-entry label-value *number* last-app-update *string*
Tree	last-app-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

next-bgp-instance *reference*

Description	Enter the next-bgp-instance context
Context	network-instance name *string* route-table mpls label-entry label-value *number* next-bgp-instance *reference*
Tree	next-bgp-instance
Reference	network-instance name *string* protocols bgp-vpn bgp-instance id *number*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-ethernet-segment *reference*

Description	If this ILM entry is for a pop label, and this label is below an EVPN label at the bottom of the stack, the label will identify an Ethernet Segment and forwarding in the network-instance may exclude the bridged subinterfaces associated with the Ethernet Segment
Context	network-instance name *string* route-table mpls label-entry label-value *number* next-ethernet-segment *reference*
Tree	next-ethernet-segment
Reference	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group *reference*

Description The next-hop-group indirection object used by this route. Applicable only if the operation is SWAP.

Context network-instance name *string* route-table mpls label-entry label-value *number* next-hop-group *reference*

Tree next-hop-group

Reference network-instance name *string* route-table next-hop-group index *number*

Configurable False

Platforms Supported on all platforms

next-network-instance *reference*

Description If this ILM entry is for a pop label, and this label is at the bottom of the stack, the next forwarding lookup will be done in the referenced network-instance

Context network-instance name *string* route-table mpls label-entry label-value *number* next-network-instance *reference*

Tree next-network-instance

Reference network-instance name *string*

Configurable False

Platforms Supported on all platforms

operation *keyword*

Description The forwarding operation associated with the MPLS label entry.

Context network-instance name *string* route-table mpls label-entry label-value *number* operation *keyword*

Tree operation

Options

- pop
- swap
- swap-pop
- pop-xconnect-unicast
- pop-xconnect-multicast

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Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* route-table mpls statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

fib-failed-entries *number*

Description	Total MPLS entries that failed FIB installation These entries were not installed successfully because datapath resources were unavailable.
Context	network-instance name *string* route-table mpls statistics fib-failed-entries *number*
Tree	fib-failed-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	Total number of MPLS entries that have been downloaded to the FIB
Context	network-instance name *string* route-table mpls statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

table-summary

Description	Enter the table-summary context Label FIB summary information

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Context	network-instance name *string* route-table mpls table-summary
Tree	table-summary
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-type entry-type *identityref* operation *keyword*

Description	Enter the label-type list instance
Context	network-instance name *string* route-table mpls table-summary label-type entry-type *identityref* operation *keyword*
Tree	label-type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry-type *identityref*

Description	Label owner or protocol
Context	network-instance name *string* route-table mpls table-summary label-type entry-type *identityref* operation *keyword*
Options	• esi ESI mpls label entry, used by BGP-EVPN • pseudowire Pseudowire mpls label entry • ldp Label distribution protocol • mldp Multicast label distribution protocol • network-instance Network Instance mpls label entry, used by EVPN or IP-VPN • rsvp-te Tunnel signaled using Resource Reservation Protocol with Traffic Engineering • sr-mpls

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Segment routing using MPLS dataplane, programmed by segment routing manager.

- static-mpls

  Locally configured static MPLS route.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description Label operation

Context network-instance name *string* route-table mpls table-summary label-type entry-type *identityref* operation *keyword*

Options

- pop
- swap
- swap-pop
- pop-xconnect-unicast
- pop-xconnect-multicast

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description Total number of ILMs associated with this owner and operation type

Context network-instance name *string* route-table mpls table-summary label-type entry-type *identityref* operation *keyword* total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop index *number*

Description	Enter the next-hop list instance
Context	network-instance name *string* route-table next-hop index *number*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	A system-wide unique identifier of a next-hop object (system allocated).
Context	network-instance name *string* route-table next-hop index *number*
Configurable	False
Platforms	Supported on all platforms

counters

Description	Enter the counters context Packet forwarding counters for this next-hop
Context	network-instance name *string* route-table next-hop index *number* counters
Tree	counters
Configurable	False
Platforms	Supported on all platforms

clear

Description	Execute the clear action Clear next-hop forwarding counters Resets the packets-forwarded and octets-forwarded counters for this next-hop to zero.
Context	network-instance name *string* route-table next-hop index *number* counters clear
Tree	clear
Configurable	False
Note	This is an action command
Platforms	Supported on all platforms

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octets-forwarded *number*

Description	The number of octets in the packets that were forwarded
Context	network-instance name *string* route-table next-hop index *number* counters octets-forwarded *number*
Tree	octets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

packets-forwarded *number*

Description	The number of packets forwarded
Context	network-instance name *string* route-table next-hop index *number* counters packets-forwarded *number*
Tree	packets-forwarded
Default	0
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available statistics resource was not available for this forwarding object
Context	network-instance name *string* route-table next-hop index *number* counters resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed-locations *string*

Description	List of forwarding complexes that reported a stat resource allocation failure. They appear in the format (slot-number,complex-number).
Context	network-instance name *string* route-table next-hop index *number* counters resource-allocation-failed-locations *string*
Tree	resource-allocation-failed-locations

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Configurable False

Platforms Supported on all platforms

decapsulate-header *keyword*

Description Packets matching this next-hop are decapsulated by removing the specified header.

Context network-instance name *string* route-table next-hop index *number* decapsulate-header *keyword*

Tree decapsulate-header

Options

- none

  There is no encapsulation header
- gre

  The encapsulation header is a Generic Routing Encapsulation header
- ipv4

  The encapsulation header is an IPv4 packet header
- ipv6

  The encapsulation header is an IPv6 packet header
- mpls

  The encapsulation header is one or more MPLS labels
- vxlan

  The encapsulation header is a VXLAN packet header
- udp-v4

  The encapsulation header is a UDP + IPv4 header
- udp-v6

  The encapsulation header is a UDP + IPv6 header

Configurable False

Platforms Supported on all platforms

indirect

Description Enter the indirect context

State that applies to an indirect next-hop

Context network-instance name *string* route-table next-hop index *number* indirect

Tree indirect

Configurable False

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Platforms	Supported on all platforms

resolved *boolean*

Description	Indicates whether the next-hop is reachable and has been resolved
Context	network-instance name *string* route-table next-hop index *number* indirect resolved *boolean*
Tree	resolved
Configurable	False
Platforms	Supported on all platforms

resolving-route

Description	Enter the resolving-route context
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-route
Tree	resolving-route
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The prefix of the resolving route
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-route ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	Reference to the next-hop-group used by the route that resolves this next-hop
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-route next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*

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Configurable	False
Platforms	Supported on all platforms

route-owner *string*

Description	The application name of the owner of the resolving route
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-route route-owner *string*
Tree	route-owner
Configurable	False
Platforms	Supported on all platforms

route-type *identityref*

Description	The type of the resolving route
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-route route-type *identityref*
Tree	route-type
Options	• aggregate Locally configured aggregate route • arp-nd IP route added by ARP ND. • bgp Border Gateway Protocol version 4 • bgp-evpn BGP Ethernet VPN (EVPN) Interface-less • bgp-evpn-iff BGP Ethernet VPN (EVPN) Interface-ful • bgp-evpn-ifl-host BGP Ethernet VPN (EVPN) Interface-less Host • bgp-ipvpn BGP IP VPN • bgp-label BGP labeled-unicast • dhcp IP (default) route added by DHCP. • gribi

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A gRIBI route

- host

  A host route

- isis

  IS-IS

- local

  A directly connected route

- linux

  IP route added by the linux kernel.

- ndk1

  Route added by an agent application using the NDK

- ndk2

  Route added by an agent application using the NDK

- ospfv2

  OSPFv2

- ospfv3

  OSPFv3

- sr-submgmt

  Subscriber-management route

- srv6

  Segment routing using IPv6 dataplane, SRv6, programmed by srv6 manager.

- static

  Locally configured static route

Configurable False

Platforms Supported on all platforms

resolving-tunnel

Description Enter the resolving-tunnel context

Context network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel

Tree resolving-tunnel

Configurable False

Platforms Supported on all platforms

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ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The endpoint of the resolving tunnel
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	Reference to the next-hop-group used by the tunnel that resolves this next-hop
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

tunnel-id *number*

Description	An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	Supported on all platforms

tunnel-owner *string*

Description	The application name of the owner of the resolving tunnel
Context	network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel tunnel-owner *string*
Tree	tunnel-owner
Configurable	False

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Platforms Supported on all platforms

tunnel-type *identityref*

Description The type of the tunnel

Context network-instance name *string* route-table next-hop index *number* indirect resolving-tunnel tunnel-type *identityref*

Tree tunnel-type

Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

usable *boolean*

Description Indicates whether the next-hop is usable

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	It may not be usable if the indirect requires other indirect next-hops for resolution, exceeding the capabilities of the platform
Context	network-instance name *string* route-table next-hop index *number* indirect usable *boolean*
Tree	usable
Configurable	False
Platforms	Supported on all platforms

interface-with-mac

Description	Enter the interface-with-mac context State that applies to an interface+MAC next-hop
Context	network-instance name *string* route-table next-hop index *number* interface-with-mac
Tree	interface-with-mac
Configurable	False
Platforms	Supported on all platforms

mac-address *string*

Description	The MAC address of the next-hop that has been provided directly
Context	network-instance name *string* route-table next-hop index *number* interface-with-mac mac-address *string*
Tree	mac-address
Configurable	False
Platforms	Supported on all platforms

ip-address *(ipv4-address | ipv6-address)*

Description	The next-hop IP address
Context	network-instance name *string* route-table next-hop index *number* ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	Supported on all platforms

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mpls

Description	Enter the mpls context State that applies to an MPLS next-hop
Context	network-instance name *string* route-table next-hop index *number* mpls
Tree	mpls
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	The next-hop-group indirection object used by MPLS nexthop.
Context	network-instance name *string* route-table next-hop index *number* mpls next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

tunnel

Description	Enter the tunnel context
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel
Tree	tunnel
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the endpoint of the tunnel
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	Supported on all platforms

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network-instance *reference*

Description	The network instance associated with the tunnel
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

owner *string*

Description	The name of the application that submitted the tunnel to TTM
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel owner *string*
Tree	owner
Configurable	False
Platforms	Supported on all platforms

tunnel-id *number*

Description	An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	The tunnel (encapsulation) type
Context	network-instance name *string* route-table next-hop index *number* mpls tunnel type *identityref*
Tree	type
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation

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- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

mpls-encapsulation

Description Enter the mpls-encapsulation context

Context network-instance name *string* route-table next-hop index *number* mpls-encapsulation

Tree mpls-encapsulation

Configurable False

Platforms Supported on all platforms

entropy-label-transmit *boolean*

Description Entropy label (EL/ELI) is pushed when transmitting to this next-hop

Context network-instance name *string* route-table next-hop index *number* mpls-encapsulation entropy-label-transmit *boolean*

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Tree	entropy-label-transmit
Configurable	False
Platforms	Supported on all platforms

pushed-mpls-label-stack *(number | keyword)*

Description	The list of MPLS labels to push onto the packet when forwarding to this particular next-hop.
Context	network-instance name *string* route-table next-hop index *number* mpls-encapsulation pushed-mpls-label-stack *(number | keyword)*
Tree	pushed-mpls-label-stack
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	Supported on all platforms

traffic-class *number*

Description	The value of the MPLS traffic class (TC) bits written into each pushed label
Context	network-instance name *string* route-table next-hop index *number* mpls-encapsulation traffic-class *number*
Tree	traffic-class
Range	0 to 7
Configurable	False
Platforms	Supported on all platforms

programmed-index *number*

Description	The index assigned to the next-hop by the gRIBI client
Context	network-instance name *string* route-table next-hop index *number* programmed-index *number*
Tree	programmed-index
Configurable	False
Platforms	Supported on all platforms

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redirect

Description	Enter the redirect context State that applies to a redirect next-hop
Context	network-instance name *string* route-table next-hop index *number* redirect
Tree	redirect
Configurable	False
Platforms	Supported on all platforms

network-instance *reference*

Description	Indicates that the next-hop is another network instance A new IP lookup should occur in the other network instance.
Context	network-instance name *string* route-table next-hop index *number* redirect network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available resource was not available for this next-hop
Context	network-instance name *string* route-table next-hop index *number* resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

srv6

Description	Enter the srv6 context State that applies to an SRv6 next-hop
Context	network-instance name *string* route-table next-hop index *number* srv6
Tree	srv6
Configurable	False

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

tunnel

Description	Enter the tunnel context
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel
Tree	tunnel
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the endpoint of the tunnel
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

network-instance *reference*

Description	The network instance associated with the tunnel
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

owner *string*

Description	The name of the application that submitted the tunnel to TTM
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel owner *string*

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Tree	owner
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

tunnel-id *number*

Description	An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

type *identityref*

Description	The tunnel (encapsulation) type
Context	network-instance name *string* route-table next-hop index *number* srv6 tunnel type *identityref*
Tree	type
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation • gre Tunnels with GRE encapsulation • udp Tunnels with UDP encapsulation • sr-isis Segment routing using MPLS dataplane, programmed by IS-IS • sr-ospfv2 Segment routing using MPLS dataplane, programmed by OSPFv2 • sr-ospfv3 Segment routing using MPLS dataplane, programmed by OSPFv3 • srv6-isis Segment routing using IPv6 dataplane, SRv6 • te-policy-sr-mpls-colored

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Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color

- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.

- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

srv6-endpoint

Description Enter the srv6-endpoint context

Context network-instance name *string* route-table next-hop index *number* srv6-endpoint

Tree srv6-endpoint

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

behavior *identityref*

Description The type of SRv6 endpoint behavior encoded by the function

Context network-instance name *string* route-table next-hop index *number* srv6-endpoint behavior *identityref*

Tree behavior

Options

- srv6-service-endpoint-behavior

  SRv6 service endpoint behavior

- end

  SRv6 instantiation of a Prefix-SID

- end-x

  Endpoint L3 cross-connect

- un

  SRv6 instantiation of a Prefix-SID with NEXT-CSID flavor

- ua

  Endpoint L3 cross-connect with NEXT-CSID flavor

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Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

block-length *number*

Description	Length of the block part of the SRv6 SID
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint block-length *number*
Tree	block-length
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

locator-name *reference*

Description	Associated SRv6 locator
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint locator-name *reference*
Tree	locator-name
Reference	srl_nokia-system system srv6 locator locator-name
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

sid-value *string*

Description	A local SRv6 SID
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint sid-value *string*
Tree	sid-value
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

srh-mode *keyword*

Description	Segment Routing Header (SRH) mode

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Context network-instance name *string* route-table next-hop index *number* srv6-endpoint srh-mode *keyword*

Tree srh-mode

Options
- psp
- usp
- psp-usd
- usp-usd
- psp-usp-usd

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

tunnel

Description Enter the tunnel context

Context network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel

Tree tunnel

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description The IPv4 or IPv6 prefix associated with the endpoint of the tunnel

Context network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*

Tree ip-prefix

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

network-instance *reference*

Description The network instance associated with the tunnel

Context network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel network-instance *reference*

Tree network-instance

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Reference	network-instance name *string*
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

owner *string*

Description	The name of the application that submitted the tunnel to TTM
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel owner *string*
Tree	owner
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

tunnel-id *number*

Description	An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

type *identityref*

Description	The tunnel (encapsulation) type
Context	network-instance name *string* route-table next-hop index *number* srv6-endpoint tunnel type *identityref*
Tree	type
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation • gre Tunnels with GRE encapsulation • udp Tunnels with UDP encapsulation

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- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

subinterface *reference*

Description The next-hop interface

Context network-instance name *string* route-table next-hop index *number* subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number* name *string*

Configurable False

Platforms Supported on all platforms

tunnel

Description Enter the tunnel context

State that applies to a tunnel next-hop

Context network-instance name *string* route-table next-hop index *number* tunnel

Tree tunnel

Configurable False

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Platforms Supported on all platforms

encapsulate-header *keyword*

Description Packets matching this next-hop are encapsulated by adding the specified header

Only populated when the tunnel is ip-in-ip.

Context network-instance name *string* route-table next-hop index *number* tunnel encapsulate-header *keyword*

Tree encapsulate-header

Options

- none

  There is no encapsulation header
- gre

  The encapsulation header is a Generic Routing Encapsulation header
- ipv4

  The encapsulation header is an IPv4 packet header
- ipv6

  The encapsulation header is an IPv6 packet header
- mpls

  The encapsulation header is one or more MPLS labels
- vxlan

  The encapsulation header is a VXLAN packet header
- udp-v4

  The encapsulation header is a UDP + IPv4 header
- udp-v6

  The encapsulation header is a UDP + IPv6 header

Configurable False

Platforms Supported on all platforms

gre

Description Enter the gre context

Details of the GRE in IPv4 or IPv6 encapsulation

Context network-instance name *string* route-table next-hop index *number* tunnel gre

Tree gre

Configurable False

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Platforms	Supported on all platforms

destination-ip *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* route-table next-hop index *number* tunnel gre destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* route-table next-hop index *number* tunnel gre in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation
Context	network-instance name *string* route-table next-hop index *number* tunnel gre ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* route-table next-hop index *number* tunnel gre out-profile-dscp *number*
Tree	out-profile-dscp

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Range	0 to 63
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* route-table next-hop index *number* tunnel gre source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

ip-in-ip

Description	Enter the ip-in-ip context Specifies details of the IP-in-IP header added to the packet. This is provided only when encapsulate-header is ipv4 or ipv6
Context	network-instance name *string* route-table next-hop index *number* tunnel ip-in-ip
Tree	ip-in-ip
Configurable	False
Platforms	Supported on all platforms

destination-ip *(ipv4-address | ipv6-address)*

Description	Destination IP address to use for the encapsulated packet.
Context	network-instance name *string* route-table next-hop index *number* tunnel ip-in-ip destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	False
Platforms	Supported on all platforms

source-ip *(ipv4-address | ipv6-address)*

Description	Source IP address to use for the encapsulated packet.

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Context	network-instance name *string* route-table next-hop index *number* tunnel ip-in-ip source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the endpoint of the tunnel
Context	network-instance name *string* route-table next-hop index *number* tunnel ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix
Configurable	False
Platforms	Supported on all platforms

network-instance *reference*

Description	The network instance associated with the tunnel
Context	network-instance name *string* route-table next-hop index *number* tunnel network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	Supported on all platforms

owner *string*

Description	The name of the application that submitted the tunnel to TTM
Context	network-instance name *string* route-table next-hop index *number* tunnel owner *string*
Tree	owner
Configurable	False
Platforms	Supported on all platforms

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tunnel-id *number*

Description An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix

Context network-instance name *string* route-table next-hop index *number* tunnel tunnel-id *number*

Tree tunnel-id

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The tunnel (encapsulation) type

Context network-instance name *string* route-table next-hop index *number* tunnel type *identityref*

Tree type

Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

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Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

udp

Description Enter the udp context

Details of the UDP in IPv4 or IPv6 encapsulation

Context network-instance name *string* route-table next-hop index *number* tunnel udp

Tree udp

Configurable False

Platforms Supported on all platforms

destination-ip *(ipv4-address | ipv6-address)*

Description Destination IP address in the outer IPv4 header

Context network-instance name *string* route-table next-hop index *number* tunnel udp destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable False

Platforms Supported on all platforms

destination-udp-port *number*

Description Destination UDP port number in the outer UDP header

Usually this reflects the encoded payload type

Context network-instance name *string* route-table next-hop index *number* tunnel udp destination-udp-port *number*

Tree destination-udp-port

Range 0 to 65535

Configurable False

Platforms Supported on all platforms

in-profile-dscp *number*

Description DSCP value in the outer IP header except when the packet is out of profile

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Context	network-instance name *string* route-table next-hop index *number* tunnel udp in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description	The IP TTTL in the outer IP header
Context	network-instance name *string* route-table next-hop index *number* tunnel udp ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* route-table next-hop index *number* tunnel udp out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IPv4 header
Context	network-instance name *string* route-table next-hop index *number* tunnel udp source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	False
Platforms	Supported on all platforms

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type *identityref*

Description The next-hop type used by the datapath.

Context network-instance name *string* route-table next-hop index *number* type *identityref*

Tree type

Options

- extract

  Next-hop will cause matching packets to be delivered to the CPM.
- direct

  Next-hop was resolved by a local route - i.e. it is an address on a connected subnet.
- discard

  Next-hop will cause matching packets to be dropped without ICMP generation.
- reject

  Next-hop will cause matching packets to be dropped with ICMP generation.
- indirect

  Next-hop was resolved by a non-local route - i.e. it is not an address on a connected subnet.
- mpls

  An MPLS label will be pushed when forwarding to this next-hop.
- tunnel

  Next-hop is a tunnel.
- broadcast

  Next-hop will cause matching subnet-bradcast packets to be delivered to the control plane.
- redirect

  Next-hop will redirect to another network-instance.
- interface-with-mac

  Next-hop is associated with an outbound interface plus MAC address
- srv6

  Packets forwarded to this next-hop have one or more SRv6 SIDs added
- srv6-endpoint

  Packets forwarded to this next-hop have an associated SRv6 endpoint behavior

Configurable False

Platforms Supported on all platforms

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vxlan-encapsulation

Description	Enter the vxlan-encapsulation context
Context	network-instance name *string* route-table next-hop index *number* vxlan-encapsulation
Tree	vxlan-encapsulation
Configurable	False
Platforms	Supported on all platforms

destination-mac *string*

Description	VXLAN inner ethernet destination mac-address.
Context	network-instance name *string* route-table next-hop index *number* vxlan-encapsulation destination-mac *string*
Tree	destination-mac
Configurable	False
Platforms	Supported on all platforms

interface *string*

Description	The VXLAN interface.
Context	network-instance name *string* route-table next-hop index *number* vxlan-encapsulation interface *string*
Tree	interface
String Length	8 to 17
Configurable	False
Platforms	Supported on all platforms

vni *number*

Description	VXLAN Network Identifier of the destination.
Context	network-instance name *string* route-table next-hop index *number* vxlan-encapsulation vni *number*
Tree	vni
Range	1 to 16777215
Configurable	False
Platforms	Supported on all platforms

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next-hop-group index *number*

Description	Enter the next-hop-group list instance
Context	network-instance name *string* route-table next-hop-group index *number*
Tree	next-hop-group
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	A system-wide unique identifier of a next-hop-group indirection object (system allocated).
Context	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

backup-active *boolean*

Description	When true, this NHG is not being used to forward traffic and its backup NHG is being relied upon to provide reachability
Context	network-instance name *string* route-table next-hop-group index *number* backup-active *boolean*
Tree	backup-active
Configurable	False
Platforms	Supported on all platforms

backup-next-hop id *number*

Description	List of backup next-hops associated with the NHG
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop id *number*
Tree	backup-next-hop
Configurable	False
Platforms	Supported on all platforms

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id *number*

Description	A unique identifier of a next-hop member (system allocated).
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop id *number*
Range	0 to 1023
Configurable	False
Platforms	Supported on all platforms

next-hop *reference*

Description	Enter the next-hop context
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop id *number* next-hop *reference*
Tree	next-hop
Reference	network-instance name *string* route-table next-hop index *number*
Configurable	False
Platforms	Supported on all platforms

resolved *keyword*

Description	Set to true when the next-hop was resolved. This reads not-applicable for resolve=false next-hops.
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop id *number* resolved *keyword*
Tree	resolved
Options	• true • false • not-applicable
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	True when an available resource was not available for this next-hop
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop id *number* resource-allocation-failed *boolean*

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Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

backup-next-hop-group *reference*

Description	The backup next-hop-group for the current group. When all entries within the next-hop group become unusable, the backup next-hop group is used if specified.
Context	network-instance name *string* route-table next-hop-group index *number* backup-next-hop-group *reference*
Tree	backup-next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

consistent-ecmp *boolean*

Description	Consistent ECMP hashing behavior indicator Reads true when the application that requested the NHG wants it to have consistent ECMP hashing behavior. When consistent ECMP is active, NHG updates that do not change the ECMP set size do not change the hashing of flows to next-hops.
Context	network-instance name *string* route-table next-hop-group index *number* consistent-ecmp *boolean*
Tree	consistent-ecmp
Configurable	False
Platforms	Supported on all platforms

dynamic-load-balancing

Description	Enter the dynamic-load-balancing context
Context	network-instance name *string* route-table next-hop-group index *number* dynamic-load-balancing
Tree	dynamic-load-balancing
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

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enabled *boolean*

Description	Reads true when the NHG has been programmed into the datapath with DLB support
Context	network-instance name *string* route-table next-hop-group index *number* dynamic-load-balancing enabled *boolean*
Tree	enabled
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

flows-rebalanced *number*

Description	Number of times the NHG has been re-programmed to move flows to new ECMP members This increments by one every time any flow in the flowset is inactive and it is moved to a new ECMP member
Context	network-instance name *string* route-table next-hop-group index *number* dynamic-load-balancing flows-rebalanced *number*
Tree	flows-rebalanced
Default	0
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

requested *boolean*

Description	Reads true when the NHG is used by one or more routes that are covered by DLB prefixes
Context	network-instance name *string* route-table next-hop-group index *number* dynamic-load-balancing requested *boolean*
Tree	requested
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

fib-programming

Description	Enter the fib-programming context

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Container for state related to the FIB programming of the object

Context network-instance name *string* route-table next-hop-group index *number* fib-programming

Tree fib-programming

Configurable False

Platforms Supported on all platforms

last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* route-table next-hop-group index *number* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms Supported on all platforms

last-failed-operation-type *keyword*

Description The last operation type that failed.

Context network-instance name *string* route-table next-hop-group index *number* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

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last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

Context network-instance name *string* route-table next-hop-group index *number* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* route-table next-hop-group index *number* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms Supported on all platforms

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

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Context	network-instance name *string* route-table next-hop-group index *number* fib-programming pending-operation-type *keyword*
Tree	pending-operation-type
Options	• add The current or last operation was an attempt to create a new entry. • delete The current or last operation was an attempt to delete an existing entry. • modify The current or last operation was an attempt to modify an existing entry. • none There was no prior operation for this entry or there is no current operation that is in process
Configurable	False
Platforms	Supported on all platforms

suppressed *boolean*

Description	When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table
Context	network-instance name *string* route-table next-hop-group index *number* fib-programming suppressed *boolean*
Tree	suppressed
Configurable	False
Platforms	Supported on all platforms

group-name-alias *string*

Description	The alias name associated with this next-hop-group.
Context	network-instance name *string* route-table next-hop-group index *number* group-name-alias *string*
Tree	group-name-alias
Configurable	False
Platforms	Supported on all platforms

next-hop id *number*

Description	List of primary next-hops associated with the NHG

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Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	A unique identifier of a next-hop member (system allocated).
Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number*
Range	0 to 1023
Configurable	False
Platforms	Supported on all platforms

next-hop *reference*

Description	Enter the next-hop context
Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number* next-hop *reference*
Tree	next-hop
Reference	network-instance name *string* route-table next-hop index *number*
Configurable	False
Platforms	Supported on all platforms

resolved *keyword*

Description	Set to true when the next-hop was resolved. This reads not-applicable for resolve=false next-hops.
Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number* resolved *keyword*
Tree	resolved
Options	• true • false • not-applicable
Configurable	False
Platforms	Supported on all platforms

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resource-allocation-failed *boolean*

Description	True when an available resource was not available for this next-hop
Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number* resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

weight *number*

Description	The configured/programmed weight assigned to the next-hop within the group This may be different from the actual weight used by the datapath, which changes depending on the next-hops that are up/down in the group. Traffic is balanced across the next-hops within the group in proportion of the actual weight.
Context	network-instance name *string* route-table next-hop-group index *number* next-hop id *number* weight *number*
Tree	weight
Configurable	False
Platforms	Supported on all platforms

programmed-index *number*

Description	The index assigned to the next-hop-group by the gRIBI client
Context	network-instance name *string* route-table next-hop-group index *number* programmed-index *number*
Tree	programmed-index
Configurable	False
Platforms	Supported on all platforms

nh-counters

Description	Enter the nh-counters context Operational commands for next-hop forwarding counters in this route table
Context	network-instance name *string* route-table nh-counters
Tree	nh-counters

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Configurable	False
Platforms	Supported on all platforms

clear

Description	Execute the clear action Clear all next-hop forwarding counters Resets the packets-forwarded and octets-forwarded counters to zero for every next-hop in this route table.
Context	network-instance name *string* route-table nh-counters clear
Tree	clear
Configurable	False
Note	This is an action command
Platforms	Supported on all platforms

router-id *string*

Description	A identifier for the local network instance - typically used within associated routing protocols or signalling routing information in another network instance
Context	network-instance name *string* router-id *string*
Tree	router-id
Configurable	True
Platforms	Supported on all platforms

segment-routing

Description	Enter the segment-routing context Container with segment routing configuration options
Context	network-instance name *string* segment-routing
Tree	segment-routing
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls

Description	Adding this container activates datapath support for SR-MPLS
Context	network-instance name *string* segment-routing mpls
Tree	mpls
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

global-block

Description	Enter the global-block context Container with SRGB configuration that is applicable to all IGP protocol instances
Context	network-instance name *string* segment-routing mpls global-block
Tree	global-block
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-range *reference*

Description	Reference to a static label range
Context	network-instance name *string* segment-routing mpls global-block label-range *reference*
Tree	label-range
Reference	system mpls label-ranges static name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-range-status *keyword*

Description	Status of the label block. The label block may show as unavailable if there is pending cleanup.

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Context	network-instance name *string* segment-routing mpls global-block label-range-status *keyword*
Tree	label-range-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-statistics *boolean*

Description	Enable the allocation of ingress statistics on local prefix SIDs
Context	network-instance name *string* segment-routing mpls ingress-statistics *boolean*
Tree	ingress-statistics
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-prefix-sid prefix-sid-index *number*

Description	List of configured protocol-independent prefix SIDs associated with the network-instance
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number*
Tree	local-prefix-sid
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

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prefix-sid-index *number*

Description	An index to enumerate the different prefix sids
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number*
Range	1 to 4
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo flex-algo-id *reference*

Description	List of Flexible Algorithms associated with this node
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference*
Tree	flex-algo
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	7

flex-algo-id *reference*

Description	Flexible Algorithm Identifier used as key
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference*
Reference	network-instance name *string* flexible-algorithm flexible-algorithm-definitions flexible-algorithm-definition flex-algo-id *number*
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-node-sid

Description Enable the ipv4-node-sid context

Context network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference* ipv4-node-sid

Tree ipv4-node-sid

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Node SID index for this interface

Context network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference* ipv4-node-sid index *number*

Tree index

Range 0 to 1048575

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6-node-sid

Description Enable the ipv6-node-sid context

Context network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference* ipv6-node-sid

Tree ipv6-node-sid

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Node SID index for this interface

Context network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* flex-algo flex-algo-id *reference* ipv6-node-sid index *number*

Tree index

Range 0 to 1048575

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Reference to the subinterface that owns the prefix(es) to be advertised.

If ipv4-label-index is assigned a value then the primary IPv4 address of the referenced subinterface is advertised as a prefix SID.

If ipv6-label-index is assigned a value then the primary IPv6 address of the referenced subinterface is advertised as a prefix SID.

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Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* interface *string*
Tree	interface
String Length	5 to 27
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-label-index *number*

Description	Label index to add to SRGB base.
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* ipv4-label-index *number*
Tree	ipv4-label-index
Range	0 to 1048575
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-label-index *number*

Description	Label index to add to SRGB base.
Context	network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* ipv6-label-index *number*
Tree	ipv6-label-index
Range	0 to 1048575
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-sid *boolean*

Description If set, the prefix SID(s) identity the router as a whole.

Context network-instance name *string* segment-routing mpls local-prefix-sid prefix-sid-index *number* node-sid *boolean*

Tree node-sid

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-database

Description Enter the sid-database context

Database of all known prefix SIDs, local and remote.

Context network-instance name *string* segment-routing mpls sid-database

Tree sid-database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*

Description List of prefix SIDs

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Context	network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*
Tree	prefix-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the SID.
Context	network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-label-value *number*

Description	The MPLS label value associated with the SID.
Context	network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description	The protocol that provided the prefix SID
Context	network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*
Options	• isis • direct

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- bgp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-instance *number*

Description The instance ID that provided the prefix SID

Context network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-multi-topology *number*

Description The multi-topology ID that provided the prefix SID

Context network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*

Range 0 to 4095

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description Contains the identifier of the algorithm the router uses to compute the reachability of the prefix to which the Prefix-SID is associated

Context network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active *boolean*

Description When false, the prefix SID is inactive.

It could be inactive because it is involved in a prefix or SID conflict that occurred between different protocol-instance. It could also be inactive because datapath programming failed.

Context network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number* active *boolean*

Tree active

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-conflict *boolean*

Description Reads true when the prefix SID entry is involved in a prefix conflict that has occurred between protocols. This occurs when there are multiple entries in the SID database for the same prefix. All the conflicting entries become inactive except for the one with the smallest sid-index.

Context network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number* prefix-conflict *boolean*

Tree prefix-conflict

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-conflict *boolean*

Description Reads true when the prefix SID entry is involved in a SID conflict that has occurred between protocols (after first removing inter-protocol prefix conflict entries). All entries involved in a SID conflict that do not have the absolute lowest 'preference' value become inactive. In the SRL implementation local-prefix-sid entries are considered to have a lower numerical preference than remote prefix-sid entries. If there are still SID conflicts then all the remaining conflicting entries become inactive except for the one with the smallest sid-index.

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Context	network-instance name *string* segment-routing mpls sid-database prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* sid-label-value *number* protocol *keyword* protocol-instance *number* protocol-multi-topology *number* algorithm *number* sid-conflict *boolean*
Tree	sid-conflict
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-statistics

Description	Enter the sid-statistics context Shared SID statistics
Context	network-instance name *string* segment-routing mpls sid-statistics
Tree	sid-statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label label *number*

Description	Enter the shared-sid-statistics list instance
Context	network-instance name *string* segment-routing mpls sid-statistics label label *number*
Tree	label
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *number*

Description	The value specifies the SID label
Context	network-instance name *string* segment-routing mpls sid-statistics label label *number*
Range	16 to 1048575
Configurable	False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *number*

Description The value indicates the algorithm related to the prefix SID. The value can indicate a defined IGP Algorithm (value 0 is SPF)

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* algorithm *number*

Tree algorithm

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Local interface

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* interface *string*

Tree interface

String Length 5 to 27

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description The number of octets

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* octets *number*

Tree octets

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description The statistics operational state of this SID for this direction

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* oper-state *keyword*

Tree oper-state

Options

- enabled
- disabled

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description The number of packets

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* packets *number*

Tree packets

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description The IP address type

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* prefix *string*

Tree prefix

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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resource-allocation *keyword*

Description Indication whether resource allocation succeeded or failed for the set of counters

Context network-instance name *string* segment-routing mpls sid-statistics label label *number* resource-allocation *keyword*

Tree resource-allocation

Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srv6

Description Enter the Segment Routing IPv6 context

Context network-instance name *string* segment-routing srv6

Tree srv6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance id *number*

Description Enter the Segment Routing IPv6 instance list

Context network-instance name *string* segment-routing srv6 instance id *number*

Tree instance

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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id *number*

Description	Segment routing IPv6 instance
Context	network-instance name *string* segment-routing srv6 instance id *number*
Range	1 to 2
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description	Enable the bridge-table context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-destinations

Description	Enter the multicast-destinations context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations
Tree	multicast-destinations
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*

Description	Enter the destination list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Tree	destination

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *(ipv4-address | ipv6-address)*

Description	SRv6 Segment Identifier of the destination
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of this evpn-srv6 destination object (system allocated)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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multicast-forwarding *keyword*

Description The type of multicast data forwarded by this srv6 destination.

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* multicast-forwarding *keyword*

Tree multicast-forwarding

Options

- none
- BUM
- unknown-unicast
- broadcast-mcast
- mcast

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the destination is not programmed in the floodlist

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index
- multicast-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-limit

Description Enter the multicast-limit context

Multicast limits per vxlan interface.

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations multicast-limit

Tree multicast-limit

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-usage *number*

Description	Maximum number of multicast srv6-destinations in use on this srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations multicast-limit current-usage *number*
Tree	current-usage
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description	Maximum number of multicast srv6-destinations allowed on a srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table multicast-destinations multicast-limit maximum-entries *number*
Tree	maximum-entries
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-entries *number*

Description	The total number of entries that are active on the srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on at least one slot.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	The type of the mac on the srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Enter the type context

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Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics mac-type type *keyword*

Options
- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the srv6 instance.

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on at least one slot

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs of this type, active and inactive, on the srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the srv6 instance.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-destinations

Description	Enter the unicast-destinations context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations
Tree	unicast-destinations
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*

Description	Enter the destination list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *(ipv4-address | ipv6-address)*

Description	SRv6 Segment Identifier of the destination
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-index *number*

Description	A system-wide unique identifier of this srv6 destination object (system allocated)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description	Enter the mac-table context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table
Tree	mac-table
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string*
Tree	mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context

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Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description	The list of slot IDs corresponding to the linecards that did not successfully program the mac
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string* failed-slots *number*
Tree	failed-slots
Range	1 to 16
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this mac
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description	The reason why the mac is not programmed

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Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the mac installed in the fib

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* mac-table mac address *string* type *keyword*

Tree type

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-programmed-reason *keyword*

Description The reason why the srv6 destination is not programmed

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries that are active on the sub-interface

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	the type of the mac on the sub-interface.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Enter the type context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics mac-type type *keyword*
Options	• static • duplicate • learnt • irb-interface • evpn • evpn-static • irb-interface-anycast

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- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on atleast one slot

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-entries *number*

Description	The total number of macs of this type, active and inactive, on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)* statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

es-destination esi *string*

Description	Enter the es-destination list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string*
Tree	es-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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esi *string*

Description	The 10-byte Ethernet Segment Identifier of the ethernet segment. ESI-0 or MAX-ESI values are not allowed.
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*

Description	Add a list entry for destination
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Tree	destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote EVPN Termination Endpoint (TEP)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *(ipv4-address | ipv6-address)*

Description	SRv6 Segment Identifier of the destination
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* destination tep *(ipv4-address | ipv6-address)* sid *(ipv4-address | ipv6-address)*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	A system-wide unique identifier of this srv6 destination object (system allocated)
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description	Enter the mac-table context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table
Tree	mac-table
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*
Tree	mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description Enter the address context

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description The list of slot IDs corresponding to the linecards that did not successfully program the mac

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* failed-slots *number*

Tree failed-slots

Range 1 to 16

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this mac

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-programmed-reason *keyword*

Description The reason why the mac is not programmed

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description The type of the mac installed in the fib

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* type *keyword*

Tree type

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description	The total number of entries that are active on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description the type of the mac on the sub-interface.

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*

Tree mac-type

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-entries *number*

Description	The total number of entries of this type on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs of this type, which have not been programmed on atleast one slot
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs of this type, active and inactive, on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface
Context	network-instance name *string* segment-routing srv6 instance id *number* bridge-table unicast-destinations es-destination esi *string* statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

locator locator-name *reference*

Description	Enter the locator list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference*
Tree	locator
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

locator-name *reference*

Description	SRv6 locator name
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference*
Reference	srl_nokia-system system srv6 locator locator-name
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

full-segment

Description	Enter the full-segment context

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Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment
Tree	full-segment
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function

Description	Enter the function context
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function
Tree	function
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end value *number*

Description	Enter the end list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end value *number*
Tree	end
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

value *number*

Description	SRv6 SID function value
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end value *number*
Range	1 to 1048575
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end value *number* sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srh-mode *keyword*

Description Segment Routing Header (SRH) mode

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end value *number* srh-mode *keyword*

Tree srh-mode

Default psp

Options

- psp
- usp
- psp-usd
- usp-usd
- psp-usp-usd

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

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Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end value *number* status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-dt4

Description Enable the end-dt4 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt4

Tree end-dt4

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt4 oper-value *number*

Tree oper-value

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt4 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt4 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt4 value *number*

Tree value

Range 1 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-dt46

Description Enable the end-dt46 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt46

Tree end-dt46

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt46 oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

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Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt46 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt46 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt46 value *number*

Tree value

Range 1 to 1048575

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-dt6

Description	Enable the end-dt6 context
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt6
Tree	end-dt6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description	SRv6 SID operational function value
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt6 oper-value *number*
Tree	oper-value
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description	The sid address associated with function
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt6 sid *string*
Tree	sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt6 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dt6 value *number*

Tree value

Range 1 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-dx2

Description Enable the end-dx2 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dx2

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Tree end-dx2

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dx2 oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dx2 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dx2 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress

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- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-dx2 value *number*

Tree value

Range 1 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-x value *number*

Description Enter the end-x list instance

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number*

Tree end-x

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 SID function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number*

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Range	1 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection *keyword*

Description	Adjacency protection for SID function
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number* protection *keyword*
Tree	protection
Default	protected
Options	• unprotected • protected
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description	The sid address associated with function
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number* sid *string*
Tree	sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srh-mode *keyword*

Description	Segment Routing Header (SRH) mode
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number* srh-mode *keyword*

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Tree srh-mode

Default psp

Options
- psp
- usp
- psp-usd
- usp-usd
- psp-usp-usd

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number* status *keyword*

Tree status

Options
- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface-name *string*

Description SubInterface name

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Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x value *number* subinterface-name *string*
Tree	subinterface-name
String Length	5 to 27
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-x-auto-allocate srh-mode *keyword* protection *keyword*

Description	Add a list entry for end-x-auto-allocate
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocate srh-mode *keyword* protection *keyword*
Tree	end-x-auto-allocate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

srh-mode *keyword*

Description	Segment Routing Header (SRH) mode
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocate srh-mode *keyword* protection *keyword*
Options	• psp • usp • psp-usd • usp-usd • psp-usp-usd
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protection *keyword*

Description Adjacency protection for automatic SID function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocate srh-mode *keyword* protection *keyword*

Options

- unprotected
- protected

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-x-auto-allocated-sids owner *keyword* request-id *number*

Description Enter the end-x-auto-allocated-sids list instance

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number*

Tree end-x-auto-allocated-sids

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

owner *keyword*

Description Auto allocate sid owner

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number*

Options

- isis

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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request-id *number*

Description Auto allocate sid request id

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number* oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number* sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

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Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* full-segment function end-x-auto-allocated-sids owner *keyword* request-id *number* status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

micro-segment

Description Enter the micro-segment context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment

Tree micro-segment

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

function

Description Enter the function context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function

Tree function

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ua value *number*

Description	Enter the ua list instance
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number*
Tree	ua
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	SRv6 SID function value
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number*
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description	SRv6 SID operational function value
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* oper-value *number*
Tree	oper-value
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protection *keyword*

Description Adjacency protection for SID function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* protection *keyword*

Tree protection

Default protected

Options

- unprotected
- protected

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srh-mode *keyword*

Description Segment Routing Header (SRH) mode

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* srh-mode *keyword*

Tree srh-mode

Default psp

Options

- psp
- usp
- psp-usd

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- usp-usd
- psp-usp-usd

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface-name *string*

Description Subinterface name

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua value *number* subinterface-name *string*

Tree subinterface-name

String Length 5 to 27

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ua-auto-allocate srh-mode *keyword* protection *keyword*

Description	Add a list entry for ua-auto-allocate
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocate srh-mode *keyword* protection *keyword*
Tree	ua-auto-allocate
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

srh-mode *keyword*

Description	Segment Routing Header (SRH) mode
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocate srh-mode *keyword* protection *keyword*
Options	• psp • usp • psp-usd • usp-usd • psp-usp-usd
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection *keyword*

Description	Adjacency protection for automatic SID function
Context	network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocate srh-mode *keyword* protection *keyword*

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Options
- unprotected
- protected

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ua-auto-allocated-sids owner *keyword* request-id *number*

Description Enter the ua-auto-allocated-sids list instance

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number*

Tree ua-auto-allocated-sids

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

owner *keyword*

Description Auto allocate sid owner

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number*

Options
- isis

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-id *number*

Description Auto allocate sid request id

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number*

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number* oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number* sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function ua-auto-allocated-sids owner *keyword* request-id *number* status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

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Entry is active and ready to be used

- net-inst-down

  Network instance is down

- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udt4

Description Enable the udt4 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt4

Tree udt4

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt4 oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt4 sid *string*

Tree sid

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt4 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt4 value *number*

Tree value

Range 1 to 65535

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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udt46

Description Enable the udt46 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt46

Tree udt46

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt46 oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt46 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt46 status *keyword*

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Tree status

Options

- not-active
  Entry is not active
- cleanup-in-progress
  Cleanup in progress
- active
  Entry is active and ready to be used
- net-inst-down
  Network instance is down
- waiting-for-resource
  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt46 value *number*

Tree value

Range 1 to 65535

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udt6

Description Enable the udt6 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt6

Tree udt6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt6 oper-value *number*

Tree oper-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt6 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt6 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

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Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udt6 value *number*

Tree value

Range 1 to 65535

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udx2

Description Enable the udx2 context

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udx2

Tree udx2

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-value *number*

Description SRv6 SID operational function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udx2 oper-value *number*

Tree oper-value

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid *string*

Description The sid address associated with function

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udx2 sid *string*

Tree sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the SRv6 sid

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udx2 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description SRv6 function value

Context network-instance name *string* segment-routing srv6 instance id *number* locator locator-name *reference* micro-segment function udx2 value *number*

Tree value

Range 1 to 65535

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the network instance

Context network-instance name *string* segment-routing srv6 status *keyword*

Tree status

Options

- not-active

  Entry is not active
- cleanup-in-progress

  Cleanup in progress
- active

  Entry is active and ready to be used
- net-inst-down

  Network instance is down
- waiting-for-resource

  Waiting for a resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static

Description Enable the static context

Context network-instance name *string* static

Tree static

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop index *number*

Description A statically defined next-hop associated with the network instance

Context network-instance name *string* static next-hop index *number*

Tree next-hop

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description A user-specified number to uniquely identify a next-hop entry in the network-instance

Context network-instance name *string* static next-hop index *number*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop

Description Drop packets sent to this next-hop

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Context	network-instance name *string* static next-hop index *number* drop
Tree	drop
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encap-header index *number*

Description	The list of headers added on top of a packet ordered by the index value The innermost header, adjacent to the original packet, has the lowest index value. Additional headers are ordered by ascending index value. For example, for MPLS in UDPv4 or UDPv6 encapsulation, the lowest index corresponds to the MPLS header and the higher index corresponds to the UDP header.
Context	network-instance name *string* static next-hop index *number* encap-header index *number*
Tree	encap-header
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

index *number*

Description	Index indicating the relative order of an encapsulation header
Context	network-instance name *string* static next-hop index *number* encap-header index *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

gre

Description	Enter the gre context

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Container of nodes for GRE encapsulation

When this container is used, an IPv4 header with a GRE header is added to the encapsulation list.

Context network-instance name *string* static next-hop index *number* encap-header index *number* gre

Tree gre

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Description Destination IP address for IP/GRE encapsulation

Context network-instance name *string* static next-hop index *number* encap-header index *number* gre destination-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *number*

Description DSCP value to write into the outer IP header

Context network-instance name *string* static next-hop index *number* encap-header index *number* gre dscp *number*

Tree dscp

Range 0 to 63

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-profile-dscp *number*

Description DSCP value to write into the outer IP header when the packet has low drop-probability

Context network-instance name *string* static next-hop index *number* encap-header index *number* gre in-profile-dscp *number*

Tree in-profile-dscp

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Range	0 to 63
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description	Initial IP TTL value that is used in the outer header during packet encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* gre ip-ttl *number*
Tree	ip-ttl
Range	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-profile-dscp *number*

Description	DSCP value to write into the outer IP header when the packet has medium drop-probability
Context	network-instance name *string* static next-hop index *number* encap-header index *number* gre out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address-unicast | ipv6-address-unicast)*

Description	The source IP address for IP/GRE encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* gre source-ip *(ipv4-address-unicast | ipv6-address-unicast)*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls

Description Enter the mpls context

Container of nodes for MPLS encapsulation

When this container is used, an MPLS header is added to the encapsulation list.

Context network-instance name *string* static next-hop index *number* encap-header index *number* mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *number*

Description The MPLS label value to encode in the label stack

Context network-instance name *string* static next-hop index *number* encap-header index *number* mpls label *number*

Tree label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description The value of the MPLS traffic class (TC) bits written into each pushed label

Context network-instance name *string* static next-hop index *number* encap-header index *number* mpls traffic-class *number*

Tree traffic-class

Range 0 to 7

Default 0

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *keyword*

Description Defines which type of packet header should be added

Context network-instance name *string* static next-hop index *number* encap-header index *number* type *keyword*

Tree type

Options

- none

  There is no encapsulation header
- gre

  The encapsulation header is a Generic Routing Encapsulation header
- ipv4

  The encapsulation header is an IPv4 packet header
- ipv6

  The encapsulation header is an IPv6 packet header
- mpls

  The encapsulation header is one or more MPLS labels
- vxlan

  The encapsulation header is a VXLAN packet header
- udp-v4

  The encapsulation header is a UDP + IPv4 header
- udp-v6

  The encapsulation header is a UDP + IPv6 header

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-v4

Description Enter the udp-v4 context

Container of nodes for UDP in IPv4 encapsulation

When this container is used, an IPv4 header with a UDP header is added to the encapsulation list.

Context network-instance name *string* static next-hop index *number* encap-header index *number* udp-v4

Tree udp-v4

Configurable True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *string*

Description	Destination IPv4 address for IP/UDP encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v4 destination-ip *string*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-udp-port *number*

Description	Destination UDP port number to use for the UDP header of the encapsulated packet When the payload packet is MPLS, then RFC 7510 - Encapsulating MPLS in UDP should be followed.
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v4 destination-udp-port *number*
Tree	destination-udp-port
Range	6080
Default	6080
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description	Initial IP TTL value that is used in the outer header during packet encapsulation When this leaf is not set, the TTL value of the inner packet is copied over as the outer packet's IP TTL value during encapsulation.
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v4 ip-ttl *number*
Tree	ip-ttl
Range	1 to 255

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *string*

Description	The source IPv4 address for IP/UDP encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v4 source-ip *string*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-v6

Description	Enter the udp-v6 context Container of nodes for UDP in IPv6 encapsulation When this container is used, an IPv6 header with a UDP header is added to the encapsulation list.
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v6
Tree	udp-v6
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *string*

Description	Destination IPv6 address for IP/UDP encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v6 destination-ip *string*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-udp-port *number*

Description	Destination UDP port number to use for the UDP header of the encapsulated packet Use 6080 for GUE encapsulation. When the payload packet is MPLS, then RFC 7510 - Encapsulating MPLS in UDP should be followed and port 6635 should be configured.
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v6 destination-udp-port *number*
Tree	destination-udp-port
Range	6080 | 6635
Default	6080
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-ttl *number*

Description	Initial IPv6 hop-limit value that is used in the outer header during packet encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v6 ip-ttl *number*
Tree	ip-ttl
Range	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *string*

Description	The source IPv6 address for IP/UDP encapsulation
Context	network-instance name *string* static next-hop index *number* encap-header index *number* udp-v6 source-ip *string*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failure-detection

Description Enter the failure-detection context

Context network-instance name *string* static next-hop index *number* failure-detection

Tree failure-detection

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cpe-check

Description Enable the cpe-check context

Context network-instance name *string* static next-hop index *number* failure-detection cpe-check

Tree cpe-check

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-threshold *number*

Description Number of consecutive missed CPE Check probes before considering the next-hop as down

Context network-instance name *string* static next-hop index *number* failure-detection cpe-check drop-threshold *number*

Tree drop-threshold

Range 1 to 255

Default 3

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	Interval in seconds between CPE Check probes
Context	network-instance name *string* static next-hop index *number* failure-detection cpe-check interval *number*
Tree	interval
Range	1 to 255
Default	1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

logging *boolean*

Description	Enable logging of CPE Check state changes for this next-hop
Context	network-instance name *string* static next-hop index *number* failure-detection cpe-check logging *boolean*
Tree	logging
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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padding *number*

Description	Number of padding bytes to add to each CPE Check probe packet
Context	network-instance name *string* static next-hop index *number* failure-detection cpe-check padding *number*
Tree	padding
Range	0 to 16384
Default	0
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-bfd

Description	Enable the enable-bfd context
Context	network-instance name *string* static next-hop index *number* failure-detection enable-bfd
Tree	enable-bfd
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *(ipv4-address | ipv6-address)*

Description	The local address to be used for the associated BFD session
Context	network-instance name *string* static next-hop index *number* failure-detection enable-bfd local-address *(ipv4-address | ipv6-address)*
Tree	local-address
Configurable	True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	The local discriminator to be used for the associated BFD session
Context	network-instance name *string* static next-hop index *number* failure-detection enable-bfd local-discriminator *number*
Tree	local-discriminator
Range	1 to 16384
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-discriminator *number*

Description	The remote discriminator to be used for the associated BFD session
Context	network-instance name *string* static next-hop index *number* failure-detection enable-bfd remote-discriminator *number*
Tree	remote-discriminator
Range	1 to 16384
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description For packets sent to this next-hop, forward them towards the specified IPv4 or IPv6 address

If the IPv6 address is a link-local address then the zoned format must be used.

Context network-instance name *string* static next-hop index *number* ip-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Tree ip-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-link

Description Enable the local-link context

Context network-instance name *string* static next-hop index *number* local-link

Tree local-link

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description Enter the interface-ref context

Reference to the subinterface used for an unnumbered IP next-hop

Context network-instance name *string* static next-hop index *number* local-link interface-ref

Tree interface-ref

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description	Reference to a base interface, for example a port or LAG
Context	network-instance name *string* static next-hop index *number* local-link interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	network-instance name *string* static next-hop index *number* local-link interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-network-instance *reference*

Description The network-instance where encapsulated packets should be forwarded or where next-hop IP address should be resolved

Context network-instance name *string* static next-hop index *number* next-hop-network-instance *reference*

Tree next-hop-network-instance

Reference network-instance name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

resolve *boolean*

Description When set to true, the router is allowed to use any route to resolve the nexthop address to an outgoing interface

When set to false the router is only allowed to use a local route to resolve the next-hop address.

Context network-instance name *string* static next-hop index *number* resolve *boolean*

Tree resolve

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-group name *string*

Description List of user defined next-hop-groups

Each next-hop-group references a list of next-hops specifying where packets should be forwarded, plus any packet header modifications. Static routes and policy-forwarding actions can reference a next-hop-group.

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Context	network-instance name *string* static next-hop-group name *string*
Tree	next-hop-group
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	A user defined name that uniquely identifies the next-hop-group
Context	network-instance name *string* static next-hop-group name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backup-next-hop-group *reference*

Description	The backup next-hop-group for the current group
Context	network-instance name *string* static next-hop-group name *string* backup-next-hop-group *reference*
Tree	backup-next-hop-group
Reference	network-instance name *string* static next-hop-group name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop index *reference*

Description An individual next-hop within the next-hop-group

Each next-hop is a reference to an entry within the next-hop list.

Context network-instance name *string* static next-hop-group name *string* next-hop index *reference*

Tree next-hop

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *reference*

Description A reference to the identifier for the next-hop

Context network-instance name *string* static next-hop-group name *string* next-hop index *reference*

Reference network-instance name *string* static next-hop index *number*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-routes

Description Enable the static-routes context

Context network-instance name *string* static-routes

Tree static-routes

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Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Enter the admin-state context
Context	network-instance name *string* static-routes admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

instance-name *string*

Description	The name of the static routing instance (optional)
Context	network-instance name *string* static-routes instance-name *string*
Tree	instance-name
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the route list instance
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)*
Tree	route
Configurable	True
Platforms	Supported on all platforms

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Max. Elements	16384

prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix context
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable the static route.
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

follow

Description	Enter the follow context
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* follow
Tree	follow
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

next-longest *boolean*

Description	Let the static route inherit the forwarding behaviour of a parent route already present in the route-table of the same network-instance. When set to true, the route-table of the same network instance gets searched for the longest-matching route with a shorter prefix and the static-

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route gets installed with that route's forwarding information. If no such longest-matching route can be found, this static-route is not installed.

Context network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* follow next-longest *boolean*

Tree next-longest

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

group-based-policy

Description Enter the group-based-policy context

Micro Segmentation Group Based Policy associations for the static route

Context network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* group-based-policy

Tree group-based-policy

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

group *reference*

Description List of groups associated to the the static route

Context network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* group-based-policy group *reference*

Tree group

Reference network-instance name *string* group-based-policy group name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

Max. Elements 14

installed *boolean*

Description If set to true, this indicates that the static route was installed into the datapath. If this is false then there are 3 possible reasons: (a) the admin-state is disable (b) there is another IP route for the same prefix that has a superior preference (c) the next-hop-group has no resolvable next-hops

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Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* installed *boolean*
Tree	installed
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	IGP metric of the static route.
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* metric *number*
Tree	metric
Default	1
Configurable	True
Platforms	Supported on all platforms

next-hop-group *reference*

Description	Enter the next-hop-group context
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* next-hop-groups group name *string*
Configurable	True
Platforms	Supported on all platforms

preference *number*

Description	Route preference with lower values indicating a higher degree of preference.
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* preference *number*
Tree	preference
Range	0 to 255
Default	5
Configurable	True
Platforms	Supported on all platforms

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static-next-hop-group *reference*

Description	Enter the static-next-hop-group context
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* static-next-hop-group *reference*
Tree	static-next-hop-group
Reference	network-instance name *string* static next-hop-group name *string*
Configurable	True
Platforms	Supported on all platforms

tag-set *reference*

Description	Tag set to associate with the static route
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* tag-set *reference*
Tree	tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms

tag-value *(number | hex-string)*

Description	Tag value to associate with the static route
Context	network-instance name *string* static-routes route prefix *(ipv4-prefix | ipv6-prefix)* tag-value *(number | hex-string)*
Tree	tag-value
String Length	1 to 11
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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system-ipv4-address

Description Enter the system-ipv4-address context

Container for displaying information about the system IPv4 address of the default network-instance

Context network-instance name *string* system-ipv4-address

Tree system-ipv4-address

Configurable False

Platforms Supported on all platforms

oper-down-reason *keyword*

Description The reason why the default network instance does not have a system IPv4 address

Context network-instance name *string* system-ipv4-address oper-down-reason *keyword*

Tree oper-down-reason

Options

- system-interface-not-bound
- system-interface-has-no-ipv4-address

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of the system IPv4 address binding

Context network-instance name *string* system-ipv4-address oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

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Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

system-ipv6-address

Description Enter the system-ipv6-address context

Container for displaying information about the system IPv6 address of the default network-instance

Context network-instance name *string* system-ipv6-address

Tree system-ipv6-address

Configurable False

Platforms Supported on all platforms

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oper-down-reason *keyword*

Description The reason why the default network instance does not have a system IPv6 address

Context network-instance name *string* system-ipv6-address oper-down-reason *keyword*

Tree oper-down-reason

Options
- system-interface-not-bound
- system-interface-has-no-ipv6-address

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of the system IPv6 address binding

Context network-instance name *string* system-ipv6-address oper-state *keyword*

Tree oper-state

Options
- up
  Component or process is operational
- down
  Component or process is not operational
- empty
  Component slot is empty
- downloading
  Component is downloading image into memory
- booting
  Component is booting downloaded image
- starting
  Component image operational, application processes starting
- failed
  Component or process has failed
- synchronizing
  Component is currently being synchronized
- upgrading
  Component is currently being upgraded
- low-power

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Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

table-connections

Description Enter the table-connections context

Container with all defined table connections

Context network-instance name *string* table-connections

Tree table-connections

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable/disable table connections in the network instance

When set to disable, configuration of table-connection list entries is blocked. For protocol B to advertise active routes of protocol A, it is sufficient for protocol B to be configured with an export-policy that accepts routes of protocol A.

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When admin-state is set to enable, protocol B cannot advertise an active route of protocol A unless there is an A->B table connection that causes the route to be accepted. When a route of protocol A is redistributed to protocol B, it is added to the RIB of protocol B and as such it is advertisable to peers of protocol B without any export policy. However if protocol B does have an export policy, this policy (or list of policies) has final control over the advertisement of the redistributed route.

Context network-instance name *string* table-connections admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword*

Description List of connections describing vectors of possible route redistribution between a source and destination protocol instance

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword*

Tree table-connection

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-protocol *identityref*

Description The source protocol for the table connection

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword*

Options

- table-connection-protocol

  Base type for protocols that can be used in table connections

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-protocol *identityref*

Description The destination protocol for the table connection

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword*

Options

- table-connection-protocol

  Base type for protocols that can be used in table connections

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-family *keyword*

Description The address family associated with the connection

The target address family is implicitly the same as the address family specified for the source protocol.

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword*

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Options
- ipv4
- ipv6

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-import-policy *keyword*

Description Specify the route redistribution behavior if no import policy rule is matched

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword* default-import-policy *keyword*

Tree default-import-policy

Default reject

Options
- accept

  If no import policy rule is matched, the route should be redistributed
- reject

  If no import policy rule is matched, the route should not be redistributed

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable-metric-propagation *boolean*

Description When set to true, the metric is not carried over from the source to the destination protocol

When set to false, the metric in the destination protocol is carried over in some way from the source protocol. For example:

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* IS-IS metric may be reflected in BGP MED * OSPF metric may be reflected in the BGP MED

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword* disable-metric-propagation *boolean*

Tree disable-metric-propagation

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-policy *reference*

Description The sequence of import policies that determine the set of routes to be redistributed from the source protocol to the dest protocol

Context network-instance name *string* table-connections table-connection source-protocol *identityref* destination-protocol *identityref* address-family *keyword* import-policy *reference*

Tree import-policy

Reference routing-policy policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 14

tcp

Description Enter the tcp context

State for TCP connections that have been established or could be established using the route tables of this network instance.

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Context	network-instance name *string* tcp
Tree	tcp
Configurable	False
Platforms	Supported on all platforms

connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*

Description	List of TCP connections that are established or that are in the process of being established – i.e. excluding those in the LISTEN state. An entry in this list is transient in that it ceases to exist when (or soon after) the connection makes the transition to the CLOSED state.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*
Tree	connection
Configurable	False
Platforms	Supported on all platforms

local-address *(ipv4-address | ipv6-address)*

Description	The local IP address for this TCP connection.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*
Configurable	False
Platforms	Supported on all platforms

local-port *number*

Description	The local port number for this TCP connection.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

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remote-address *(ipv4-address | ipv6-address)*

Description	The remote IP address for this TCP connection.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*
Configurable	False
Platforms	Supported on all platforms

remote-port *number*

Description	The remote port number for this TCP connection.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number*
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

process-id *number*

Description	The process ID of the application that owns the socket.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number* process-id *number*
Tree	process-id
Configurable	False
Platforms	Supported on all platforms

session-state *keyword*

Description	The state of this TCP connection.
Context	network-instance name *string* tcp connection local-address *(ipv4-address | ipv6-address)* local-port *number* remote-address *(ipv4-address | ipv6-address)* remote-port *number* session-state *keyword*
Tree	session-state
Options	• closed • syn-sent

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- syn-received
- established
- fin-wait1
- fin-wait2
- close-wait
- last-ack
- closing
- time-wait
- delete-tcb

Configurable False

Platforms Supported on all platforms

listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Description List of applications that are listening on a particular TCP port bound to the network-instance.

Context network-instance name *string* tcp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Tree listening-application

Configurable False

Platforms Supported on all platforms

local-address *(ipv4-address | ipv6-address)*

Description The local IP address accepted by the application. An all-zeroes value for the ipv4-address means that any IPv4 address is accepted. An all-zeroes value for the ipv6-address means that any IPv6 address is accepted.

Context network-instance name *string* tcp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Configurable False

Platforms Supported on all platforms

local-port *number*

Description The local port number accepted by the application.

Context network-instance name *string* tcp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Range 0 to 65535

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Configurable	False
Platforms	Supported on all platforms

process-id *number*

Description	The process ID of the application that owns the socket.
Context	network-instance name *string* tcp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number* process-id *number*
Tree	process-id
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* tcp statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-opens *number*

Description	The total number of times that TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state.
Context	network-instance name *string* tcp statistics active-opens *number*
Tree	active-opens
Default	0
Configurable	False
Platforms	Supported on all platforms

attempt-fails *number*

Description	The total number of times that TCP connections have made a direct transition to the CLOSED state from either the SYN-SENT state or the SYN-RCVD state, plus the number of times that TCP connections have made a direct transition to the LISTEN state from the SYN-RCVD state.
Context	network-instance name *string* tcp statistics attempt-fails *number*

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Tree	attempt-fails
Default	0
Configurable	False
Platforms	Supported on all platforms

established-resets *number*

Description	The total number of times that TCP connections have made a direct transition to the CLOSED state from either the ESTABLISHED state or the CLOSE-WAIT state.
Context	network-instance name *string* tcp statistics established-resets *number*
Tree	established-resets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-checksum-errors *number*

Description	The total number of segments that are received as bad TCP checksum errors.
Context	network-instance name *string* tcp statistics in-checksum-errors *number*
Tree	in-checksum-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

in-error-segments *number*

Description	The total number of segments received in error (e.g., bad TCP checksums).
Context	network-instance name *string* tcp statistics in-error-segments *number*
Tree	in-error-segments
Default	0
Configurable	False
Platforms	Supported on all platforms

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in-segments *number*

Description	The total number of segments received, including those received in error. This count includes segments received on currently established connections.
Context	network-instance name *string* tcp statistics in-segments *number*
Tree	in-segments
Default	0
Configurable	False
Platforms	Supported on all platforms

out-rst-segments *number*

Description	The total number of TCP segments sent containing the RST flag.
Context	network-instance name *string* tcp statistics out-rst-segments *number*
Tree	out-rst-segments
Default	0
Configurable	False
Platforms	Supported on all platforms

out-segments *number*

Description	The total number of segments sent, including those on current connections but excluding those containing only retransmitted octets.
Context	network-instance name *string* tcp statistics out-segments *number*
Tree	out-segments
Default	0
Configurable	False
Platforms	Supported on all platforms

passive-opens *number*

Description	The total number of times TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state.
Context	network-instance name *string* tcp statistics passive-opens *number*
Tree	passive-opens
Default	0

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Configurable	False
Platforms	Supported on all platforms

retransmitted-segments *number*

Description	The total number of segments retransmitted; that is, the number of TCP segments transmitted containing one or more previously transmitted octets.
Context	network-instance name *string* tcp statistics retransmitted-segments *number*
Tree	retransmitted-segments
Default	0
Configurable	False
Platforms	Supported on all platforms

traffic-engineering

Description	Container with traffic engineering options for the network-instance
Context	network-instance name *string* traffic-engineering
Tree	traffic-engineering
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-groups

Description	Enter the admin-groups context Container for configuring admin groups
Context	network-instance name *string* traffic-engineering admin-groups
Tree	admin-groups
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group name *string*

Description	List of admin groups defined for this network instance.

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Context	network-instance name *string* traffic-engineering admin-groups group name *string*
Tree	group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The name of the admin group
Context	network-instance name *string* traffic-engineering admin-groups group name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bit-position *number*

Description	The bit-position value for the admin-group. The value for the admin group is an integer that represents one of the bit positions in the admin-group bitmask.
Context	network-instance name *string* traffic-engineering admin-groups group name *string* bit-position *number*
Tree	bit-position
Range	0 to 31
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

autonomous-system *number*

Description	The autonomous system number of the network-instance, for protocols and pseudo-protocols that do not have their own configuration of AS number.
Context	network-instance name *string* traffic-engineering autonomous-system *number*

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Tree	autonomous-system
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-ls

Description	Enter the bgp-ls context
Context	network-instance name *string* traffic-engineering bgp-ls
Tree	bgp-ls
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export

Description	Enter the export context
Context	network-instance name *string* traffic-engineering bgp-ls export
Tree	export
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reachable-ls-only *boolean*

Description	Export only link state information from a node that is reachable
Context	network-instance name *string* traffic-engineering bgp-ls export reachable-ls-only *boolean*
Tree	reachable-ls-only
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface interface-name *string*

Description	List of routed subinterfaces that have associated TE information
Context	network-instance name *string* traffic-engineering interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Name of a subinterface
Context	network-instance name *string* traffic-engineering interface interface-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-group *reference*

Description	The list of admin-groups generically associated with the interface (not application specific)
Context	network-instance name *string* traffic-engineering interface interface-name *string* admin-group *reference*
Tree	admin-group
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description	Enter the interface-ref context

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Reference to a subinterface

Context network-instance name *string* traffic-engineering interface interface-name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port or LAG

Context network-instance name *string* traffic-engineering interface interface-name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container.

Context network-instance name *string* traffic-engineering interface interface-name *string* interface-ref subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srlg-membership *reference*

Description The list of srlgs generically associated with the interface (not application specific)

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Context	network-instance name *string* traffic-engineering interface interface-name *string* srlg-membership *reference*
Tree	srlg-membership
Reference	network-instance name *string* traffic-engineering shared-risk-link-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	64

te-metric *number*

Description	The TE metric associated with the interface (not application specific)
Context	network-instance name *string* traffic-engineering interface interface-name *string* te-metric *number*
Tree	te-metric
Range	1 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-te-router-id *string*

Description	A routable IPv4 address to identify the router uniquely in a TE domain.
Context	network-instance name *string* traffic-engineering ipv4-te-router-id *string*
Tree	ipv4-te-router-id
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-te-router-id *string*

Description	A routable IPv6 address to identify the router uniquely in a TE domain.
Context	network-instance name *string* traffic-engineering ipv6-te-router-id *string*
Tree	ipv6-te-router-id

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

shared-risk-link-groups

Description	Enter the shared-risk-link-groups context Container for configuring SRLGs
Context	network-instance name *string* traffic-engineering shared-risk-link-groups
Tree	shared-risk-link-groups
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group name *string*

Description	List of shared risk link groups defined for this network instance.
Context	network-instance name *string* traffic-engineering shared-risk-link-groups group name *string*
Tree	group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1024

name *string*

Description	The name of the shared risk link group
Context	network-instance name *string* traffic-engineering shared-risk-link-groups group name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description	Group ID for the SRLG
Context	network-instance name *string* traffic-engineering shared-risk-link-groups group name *string* value *number*
Tree	value
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-engineering-policies

Description	Container with traffic engineering policies
Context	network-instance name *string* traffic-engineering-policies
Tree	traffic-engineering-policies
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid

Description	Enter the binding-sid context Configuration and state related to the label block(s) used for the binding SIDs associated with TE policies
Context	network-instance name *string* traffic-engineering-policies binding-sid
Tree	binding-sid
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block *reference*

Description	Reference to a dynamic label block
Context	network-instance name *string* traffic-engineering-policies binding-sid dynamic-label-block *reference*

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Tree	dynamic-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block-status *keyword*

Description	Status of the label block The label block may show as unavailable if there is pending cleanup
Context	network-instance name *string* traffic-engineering-policies binding-sid dynamic-label-block-status *keyword*
Tree	dynamic-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block *reference*

Description	Reference to a static label range
Context	network-instance name *string* traffic-engineering-policies binding-sid static-label-block *reference*
Tree	static-label-block
Reference	system mpls label-ranges static name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-label-block-status *keyword*

Description	Status of the label block. The label block may show as unavailable if there is pending cleanup.

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Context	network-instance name *string* traffic-engineering-policies binding-sid static-label-block-status *keyword*
Tree	static-label-block-status
Options	• available • unavailable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-paths

Description	Enter the explicit-paths context Named paths used to specify SR policy segment lists
Context	network-instance name *string* traffic-engineering-policies explicit-paths
Tree	explicit-paths
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path explicit-path-name *string*

Description	Enter the path list instance
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string*
Tree	path
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-path-name *string*

Description	A unique name to identify the explicit path
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string*
String Length	1 to 255

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop index *number*

Description	Enter the hop list instance
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number*
Tree	hop
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	The index number of the hop. Hops are processed in ascending sequence.
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip

Description	Enable the ip context
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number* ip
Tree	ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hop-type *keyword*

Description Enter the hop-type context

Context network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number* ip hop-type *keyword*

Tree hop-type

Default loose

Options

- strict

  A strict hop is always one hop away from the previous hop (or from the head-end in the case of the first hop). TE DB translates each strict hop into an adjacency-SID label. To be resolved to an adjacency SID, a strict hop must be a non-local IP address on a connected subnet (representing the neighbor's interface address on this subnet) or it must be a loopback or system address of the directly-connected neighbor.

- loose

  A loose hop can be any number of hops away from the previous hop (or from the head-end in the case of the first hop). TE DB translates each loose hop into a node-SID label. A loose hop can be any IP address of the remote router associated with the node SID, not just the IP address associated with the node SID itself. Note that the endpoint of the policy is implicitly considered to be a final loose hop. If the final configured hop (previous hop of this implicit loose hop) is unnecessary TEDB indicates this to SR policy manager and the adjacency SID or node SID of the final confgired hop is omitted from the datapath programming.

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description An IPv4 or IPv6 address that is a hop to be visited on the way to the destination

Context network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number* ip ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree ip-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls-label *number*

Description	An MPLS label value representing a segment routing instruction
Context	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string* hop index *number* mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string*

Description	List of traffic engineering policies
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description	The name of the traffic engineering policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable/disable the traffic engineering policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* admin-state *keyword*

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Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid

Description Enter the binding-sid context

Identifier that opaquely represents the Uncolored Traffic Engineering Policy (a.k.a. SR-TE LSP) to upstream routers

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* binding-sid

Tree binding-sid

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description MPLS label that represents the Uncolored Traffic Engineering Policy to upstream routers

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* binding-sid mpls-label *number*

Tree mpls-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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candidate-path-preference *number*

Description	One sr-mpls-colored TE policy is considered better than another sr-mpls-colored for thesame (color, endpoint) if it has a higher preference than the other path.
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* candidate-path-preference *number*
Tree	candidate-path-preference
Range	0 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Color associated with the sr-mpls-colored TE policy.
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* color *number*
Tree	color
Range	0 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description	Discriminator value to make different sr-mpls-colored policies unique
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* discriminator *number*
Tree	discriminator
Range	1 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Destination of the TE policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	endpoint
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

head-end *(ipv4-address-unicast | ipv6-address-unicast-without-local | keyword)*

Description	Targeted head end address for an sr-mpls-colored policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* head-end *(ipv4-address-unicast | ipv6-address-unicast-without-local | keyword)*
Tree	head-end
Default	local
Options	• local
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	Metric for the TE Policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* metric *number*
Tree	metric
Range	1 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policy-type *keyword*

Description Specifies the TE policy type

TE Policy can be of type sr-mpls-colored where label based segment-list or segment-lists constitute a candidate path and color with endpoint is used to configure a path. TE Policy can be of type uncolored in which case a single primary LSP can be backed by one or more secondary LSPs

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* policy-type *keyword*

Tree policy-type

Default sr-mpls-uncolored

Options

- sr-mpls-colored
- sr-mpls-uncolored

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection

Description Enter the protection context

Protection context for TE Policy, hold and wait timers, sBFD, revertive behavior and alike available under this context

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* protection

Tree protection

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policy *reference*

Description The protection policy to use with the TE policy

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* protection protection-policy *reference*

Tree protection-policy

Reference system protection-policies policy protection-policy-name *string*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-path

Description	Enter the return-path context Context for defining return path identifier
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* protection return-path
Tree	return-path
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that is used by reflector while responding to the sBFD request. Assigned value should uniquely identify the sender. Binding-SID or a Node-SID are commonly used options
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* protection return-path mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

re-optimization-timer *(number | keyword)*

Description	Re-optimizaion timer for the TE policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* re-optimization-timer *(number | keyword)*
Tree	re-optimization-timer
Range	30 to 10800
Default	30

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Units	minutes
Options	• disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-timer *number*

Description	Time between TE policy re-establishment attempts after failure
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* retry-timer *number*
Tree	retry-timer
Range	1 to 600
Default	30
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list segment-list-index *number*

Description	Enter the segment-list list instance
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number*
Tree	segment-list
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Index to enumerate the different segment lists of a TE policy.
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number*
Range	1 to 32

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable a segment list
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* admin-state *keyword*
Tree	admin-state
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic

Description	Configuration and state for dynamic segment lists
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic
Tree	dynamic
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fallback-path-algorithm *keyword*

Description	Backup path computation algorithm when PCE becomes unavailable; requires dynamic path computation for uncolored sr-mpls Segment-List type to be set to PCE
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic fallback-path-algorithm *keyword*
Tree	fallback-path-algorithm
Options	• none

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- local-cspf

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-algorithm *keyword*

Description Path computation method

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic path-algorithm *keyword*

Tree path-algorithm

Default local-cspf

Options

- local-cspf
- pce

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-constraints

Description Enter the te-constraints context

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints

Tree te-constraints

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric-limit *(keyword | number)*

Description The maximum acceptable delay for the segment-list used via local CSPF during path computation

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints delay-metric-limit *(keyword | number)*

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Tree	delay-metric-limit
Range	1 to 16777215
Default	no-limit
Options	• no-limit
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-admin-group *reference*

Description	Admin Group name to be excluded in path computation for all the segment-lists under the TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints exclude-admin-group *reference*
Tree	exclude-admin-group
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Excluded IP addresses from path computation
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	exclude-hop
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

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exclude-srlg *reference*

Description	Excluded SRLGs during path computation
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints exclude-srlg *reference*
Tree	exclude-srlg
Reference	network-instance name *string* traffic-engineering shared-risk-link-groups group name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

hop-limit *number*

Description	The maximum number of hops for the segment-list
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints hop-limit *number*
Tree	hop-limit
Range	2 to 255
Default	255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-admin-group *reference*

Description	Admin Group name to be included in path computation for all the segment-lists under the TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints include-admin-group *reference*
Tree	include-admin-group
Reference	network-instance name *string* traffic-engineering admin-groups group name *string*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

label-stack-reduction *boolean*

Description	Set to true to enable label stack reduction for local CSPF computed segment-lists
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints label-stack-reduction *boolean*
Tree	label-stack-reduction
Default	true
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-sr-protection *keyword*

Description	Protection offered for local CSPF computed segment-lists
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints local-sr-protection *keyword*
Tree	local-sr-protection
Default	preferred
Options	• none • preferred • mandated
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description	Metric type used for segment-list computation

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Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints metric-type *keyword*
Tree	metric-type
Default	igp
Options	• igp • te • delay
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-associations

Description	Enter the pce-associations context PCE association policy and diversity
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints pce-associations
Tree	pce-associations
Configurable	True
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms

diversity *reference*

Description	List of diversity names
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints pce-associations diversity *reference*
Tree	diversity
Reference	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string*
Configurable	True
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

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policy-association *reference*

Description	List of PCE associations configured under the PCC
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints pce-associations policy-association *reference*
Tree	policy-association
Reference	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string*
Configurable	True
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

secondary-srlg *boolean*

Description	Set to to true to consider SRLG for secondary and standby segment list of uncolored type
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints secondary-srlg *boolean*
Tree	secondary-srlg
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-depth

Description	Enter the segment-depth context Configuration for the maximum number of SIDs/segments
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints segment-depth
Tree	segment-depth
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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segment-limit *number*

Description	The maximum number of segments in the segment-list
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* dynamic te-constraints segment-depth segment-limit *number*
Tree	segment-limit
Range	1 to 14
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-path *reference*

Description	Enter the explicit-path context
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* explicit-path *reference*
Tree	explicit-path
Reference	network-instance name *string* traffic-engineering-policies explicit-paths path explicit-path-name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-control *boolean*

Description	Set to true for a PCE controlled segment-list
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* pce-control *boolean*
Tree	pce-control
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pce-report *boolean*

Description	seto to true to enable reporting of the segment-list to the PCE
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* pce-report *boolean*
Tree	pce-report
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority

Description	Enter the priority context Configure setup and hold priorities to be conveyed to the PCE for preemption purposes
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* priority
Tree	priority
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-priority *number*

Description	Hold priority of a TE policy in relation to preemption action
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* priority hold-priority *number*
Tree	hold-priority
Range	0 to 7
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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setup-priority *number*

Description Setup priority of a TE policy in relation to preemption action

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* priority setup-priority *number*

Tree setup-priority

Range 0 to 7

Default 7

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-preference *number*

Description Preference value of this segment-list

For an sr-mpls-uncolored TE policy one standby segment list is preferred over another if it has a lower preference value. The implicit default value is 100.

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* segment-list-preference *number*

Tree segment-list-preference

Range 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-type *keyword*

Description Segment-list type: primary, standby or secondary

Standby is programmed in datapath, consumes resources and is ready for a failover any time. Secondary is programmed upon failure of the previous active

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* segment-list-type *keyword*

Tree segment-list-type

Options

- primary

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- secondary
- standby

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Weight of this segment list, used for weighted ECMP between segment lists

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* segment-list segment-list-index *number* weight *number*

Tree weight

Range 1 to 4294967295

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Traffic Statistics

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

Egress-statistics context

Context network-instance name *string* traffic-engineering-policies policy policy-name *string* statistics egress

Tree egress

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the traffic statistics
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* statistics egress admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description	Enter the ingress context Ingress statistics context
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* statistics ingress
Tree	ingress
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the traffic statistics
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* statistics ingress admin-state *keyword*
Tree	admin-state
Default	disable

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Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-set *reference*

Description	Tag set to associate with an sr-mpls-uncolored TE policy
Context	network-instance name *string* traffic-engineering-policies policy policy-name *string* tag-set *reference*
Tree	tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on 7250 IXR, 7220 IXR

policy-database

Description	Enter the policy-database context Traffic Engineering Policy Database
Context	network-instance name *string* traffic-engineering-policies policy-database
Tree	policy-database
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-te-policies *number*

Description	Number of active Traffic Engineering Polices
Context	network-instance name *string* traffic-engineering-policies policy-database active-te-policies *number*
Tree	active-te-policies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sr-colored

Description Enter the sr-colored context

SR MPLS Policy colored Traffic Engineering Paths

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored

Tree sr-colored

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Enter the policy list instance

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree policy

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description Color associated with the SR MPLS (colored) policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Policy endpoint IP address

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-candidate-path-name *string*

Description	Colored Traffic Engineering Policy active candidate path name
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* active-candidate-path-name *string*
Tree	active-candidate-path-name
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid

Description	Enter the binding-sid context Identifier that opaquely represents the Colored Traffic Engineering Policy to upstream routers
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* binding-sid
Tree	binding-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocation-status *boolean*

Description	If the same BSID is used by another Colored TE-Policy candidate path or by an Uncolored TE-Policy

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* binding-sid allocation-status *boolean*
Tree	allocation-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that represents the Colored Traffic Engineering Policy to upstream routers
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* binding-sid mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address \| ipv6-address)*

Description	SR policy candidate paths. This list includes local static policies, but only those that have both a color and endpoint.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*
Tree	candidate-path
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocol-origin *keyword*

Description Instantiation mechanism used to create the candidate path

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description Candidate path discriminator

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-asn *number*

Description Autonomous System (ASN) Identifier of the node that signalled/instantiated the candidate path on headend

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-address *(ipv4-address | ipv6-address)*

Description	IP address Identifier of the node that signalled/instantiated the candidate path on headend
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd

Description	Enter the bfd context BFD hold timer
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* bfd
Tree	bfd
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description	Specifies a hold-down timer value when seamless-bfd is enabled The timer is started when the number of S-BFD sessions that are up drops below the threshold. The TE-policy path is not considered to be up again until the hold-down timer has expired and the number of S-BFD sessions that are up equals or exceeds the threshold. A grace preiod after session down such that sBFD session flaps does not impact active path.

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The default is 3 seconds.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* bfd hold-down-timer *number*

Tree hold-down-timer

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer-expiry *string*

Description Time remaining on seamless-bfd hold down timer

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* bfd hold-down-timer-expiry *string*

Tree hold-down-timer-expiry

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid

Description Enter the binding-sid context

Identifier that opaquely represents the Colored Traffic Engineering Policy to upstream routers

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* binding-sid

Tree binding-sid

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocation-status *boolean*

Description	If the same BSID is used by another Colored TE-Policy candidate path or by an Uncolored TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* binding-sid allocation-status *boolean*
Tree	allocation-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that represents the Colored Traffic Engineering Policy to upstream routers
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* binding-sid mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-path-name *string*

Description	Candidate path name
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator

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number originator-asn *number* originator-address *(ipv4-address | ipv6-address)* candidate-path-name *string*

Tree candidate-path-name

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-path-preference *number*

Description Candidate path preference

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* candidate-path-preference *number*

Tree candidate-path-preference

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-state *keyword*

Description Forwarding state of the candidate-path, tells about the activeness of candidate-path in the data-path.

active - programmed in data path as best candidate path and enabled for forwarding traffic backup - Programmed in data path for uniform fail-over and forwarding sBFD / OAM packets, inactive - Programmed in data path as standby and forwarding sBFD / OAM packets.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* forwarding-state *keyword*

Tree forwarding-state

Options

- active
- inactive
- backup

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	Time elapsed since the last operational state change for the Traffic Engineering Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *identityref*

Description	The reason why the Candidate path is operationally down. One of the following values:
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* oper-down-reason *identityref*
Tree	oper-down-reason
Options	• operational-segment-lists-below-threshold The candidate path does not have enough number of operationally up segment lists that meets or exceeds the threshold • no-valid-segment-lists The candidate path does not have any valid segment list • better-candidate-path-available Candidate path with higher preference or protocol-origin, lower value of originator or higher value of discriminator is available • policy-admin-disabled The candidate path is administratively disabled

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- binding-sid-allocation-failed

  No free labels in the label-range
- binding-sid-conflict

  Binding SID already in use by another TE-Policy
- protection-mode-conflict

  Protection mode assigned to others CPs within the same TE-Policy do no match

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Candidate path operational state

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* oper-state *keyword*

Tree oper-state

Options

- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-change-count *number*

Description Traffic Engineering Policy candidate-path operational state change count Operational status transition from up to down, down to up, etc all accounted under this counter

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* oper-state-change-count *number*

Tree oper-state-change-count

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-segment-list-count *number*

Description	Operational segment-list count for Candidate Path
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* operational-segment-list-count *number*
Tree	operational-segment-list-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection

Description	Enter the protection context Protection context for TE Policy, hold and wait timers, sBFD, revertive behavior and alike available under this context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* protection
Tree	protection
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policy *string*

Description	The protection policy to use with the TE policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* protection protection-policy *string*

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Tree	protection-policy
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-path

Description	Enter the return-path context Context for defining return path identifier
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* protection return-path
Tree	return-path
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that is used by reflector while responding to the sBFD request. Assigned value should uniquely identify the sender. Binding-SID or a Node-SID are commonly used options
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* protection return-path mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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threshold *number*

Description	Number of operational segment-lists needed for candidate-path to be operational
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* protection threshold *number*
Tree	threshold
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer *number*

Description	Revert timer for the candidate path. Timer till a revert to best path after it is recovered from a failure. The default is 0 seconds.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* revert-timer *number*
Tree	revert-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer-expiry *string*

Description	Time remanining on revert-timer
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* revert-timer-expiry *string*
Tree	revert-timer-expiry

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list segment-list-index *number*

Description	Enter the segment-list list instance
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number*
Tree	segment-list
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Index to enumerate the different segment lists.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number*
Range	1 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd

Description	Enter the bfd context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator

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number originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd

Tree bfd

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd-state *keyword*

Description The current state of the BFD session on the LSP path.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd bfd-state *keyword*

Tree bfd-state

Options

- not-applicable
- down
- up

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd-wait-for-up-expiry *string*

Description The time in seconds left to wait for the bfd session to be up.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd bfd-wait-for-up-expiry *string*

Tree bfd-wait-for-up-expiry

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bfd-wait-for-up-timer *number*

Description

Specifies a wait-for-up timer value when seamless-bfd is enabled

This timer takes effect if BFD does not come up, or BFD goes from up to down. The timer is started when BFD is first enabled on a segment-list or BFD transitions from up to down. When the timer expires if BFD is not yet come up, then the path is torn down by removing it from the TTM and the PI and the retry timer is started.

The default is 3 seconds.

Context

network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd bfd-wait-for-up-timer *number*

Tree

bfd-wait-for-up-timer

Units

seconds

Configurable

False

Platforms

7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description

Specifies a hold-down timer value when seamless-bfd is enabled

The timer is started when the number of S-BFD sessions that are up drops below the threshold. The TE-policy path is not considered to be up again until the hold-down timer has expired and the number of S-BFD sessions that are up equals or exceeds the threshold. A grace preiod after session down such that sBFD session flaps does not impact active path.

The default is 3 seconds.

Context

network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd hold-down-timer *number*

Tree

hold-down-timer

Units

seconds

Configurable

False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer-expiry *string*

Description	Time remaining on seamless-bfd hold down timer
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* bfd hold-down-timer-expiry *string*
Tree	hold-down-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-segments

Description	Enter the computed-segments context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments
Tree	computed-segments
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment segment-index *number*

Description	Enter the segment list instance
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-*

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address) segment-list segment-list-index *number* computed-segments segment segment-index *number*

Tree segment

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-index *number*

Description Index to enumerate the different segments in a segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description Hop type.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* hop-type *keyword*

Tree hop-type

Options

- ipv4
- ipv6
- unnum

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	IP Address for this hop.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-loose *boolean*

Description	Indicates if this tunnel hop is loose.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* is-loose *boolean*
Tree	is-loose
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description	The value of router ID.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* router-id *(ipv4-address | ipv6-address)*
Tree	router-id
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-type *keyword*

Description Type of Segment Identifier (SID).

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-type *keyword*

Tree sid-type

Options

- not-applicable
- node-sid
- adjacency-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-value

Description Enter the sid-value context

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-value

Tree sid-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description Label recorded for this hop.

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-value mpls-label *number*
Tree	mpls-label
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description	The value of unnumbered interface identifier of this hop.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* computed-segments segment segment-index *number* unnumbered-if-id *number*
Tree	unnumbered-if-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric *number*

Description	Delay metric of given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* delay-metric *number*
Tree	delay-metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dynamic

Description Enter the dynamic context

Dynamic Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic

Tree dynamic

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-algorithm *keyword*

Description Algorithm used for computation of the Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic path-algorithm *keyword*

Tree path-algorithm

Options

- local-cspf
- pce

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-constraints

Description Enter the te-constraints context

Traffic Engineering constraints for dynamic segment-lists

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator

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number originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints

Tree te-constraints

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric-limit *(keyword | number)*

Description The maximum acceptable delay for the segment-list used via local CSPF during path computation

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints delay-metric-limit *(keyword | number)*

Tree delay-metric-limit

Range 1 to 16777215

Options

- no-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-admin-group *string*

Description Admin Group name to be excluded in path computation for all the segment-lists under the TE-Policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints exclude-admin-group *string*

Tree exclude-admin-group

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Excluded IP addresses from path computation for the given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	exclude-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-srlg *string*

Description	SRLG links excluded during path computation for the given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints exclude-srlg *string*
Tree	exclude-srlg
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description	Hop limit contraint used for computation of the Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints hop-limit *number*
Tree	hop-limit
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-admin-group *string*

Description	Admin Group name to be included in path computation for all the segment-lists under the TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints include-admin-group *string*
Tree	include-admin-group
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-stack-reduction *boolean*

Description	If label stack reduction is enabled for the given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints label-stack-reduction *boolean*
Tree	label-stack-reduction
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-sr-protection *keyword*

Description	Protection offered for local CSPF computed segment-lists
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-*

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address) segment-list segment-list-index *number* dynamic te-constraints local-sr-protection *keyword*

Tree local-sr-protection

Options
- none
- preferred
- mandated

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Metric type used for segment-list computation

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints metric-type *keyword*

Tree metric-type

Options
- igp
- te
- delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-associations

Description Enter the pce-associations context

PCE association policy and diversity

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints pce-associations

Tree pce-associations

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Configurable	False
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms

diversity *reference*

Description	List of diversity names
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints pce-associations diversity *reference*
Tree	diversity
Reference	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string*
Configurable	False
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

policy-association *reference*

Description	List of PCE associations configured under the PCC
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints pce-associations policy-association *reference*
Tree	policy-association
Reference	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string*
Configurable	False
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

secondary-srlg *boolean*

Description	If SRLG constraints are taken into account while computing Secondary Segment List

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Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints secondary-srlg *boolean*

Tree secondary-srlg

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-depth

Description Enter the segment-depth context

Configuration for the maximum number of SIDs/segments

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints segment-depth

Tree segment-depth

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-limit *number*

Description The maximum number of segments in the segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* dynamic te-constraints segment-depth segment-limit *number*

Tree segment-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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explicit-path *string*

Description Explicit-path used for instantiating Segment List under Traffic Engineering Policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* explicit-path *string*

Tree explicit-path

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-reason *identityref*

Description The reason why the segment list is invalid.

One of the following values:

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* failed-reason *identityref*

Tree failed-reason

Options

- path-computation-request-timeout

  Path computation request timed out

- path-computation-no-route

  No valid route is returned for path computation request

- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list

- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops

- path-computation-routing-loop

  Path computation failure due to routing loop

- unknown

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Segment-list is down due to unknown reason

- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops

- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured

- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG

- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation

- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down

- unresolved-first-segment

  The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)

- fib-add-pending

  Segment-list is kept down, when adding next-hop into the FIB

- fib-add-failed

  FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy

- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.

- pce-update-with-empty-ero

  PCE update has empty Explicit Route Object (EROs)

- segment-list-admin-down

  Segment-list is administratively down

- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path

- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path

- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path

- sid-hops-with-invalid-path-computation

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SID hops (labeled hops) with path computation local-cspf/pcep is not allowed

- invalid-path-computation

  Segment-list with unsupported path computation method
- policy-down

  Traffic engineering policy is down
- pce-association-conflict

  PCE-association conflict
- retry-on-config-change

  Segment-list retry attempted due to config change
- clear-command

  Segment-list retry attempted due to manual clear command
- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available
- bfd-down

  BFD is reported down
- te-rtr-id-not-configured

  TE router ID config is missing
- pce-down

  PCE is unavailable
- pcc-down

  PCC is unavailable
- pce-error

  PCE response has error or timed-out
- pcc-error

  PCC responded with error
- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded
- invalid-protection-mode

  Invalid protection mode for the TE-policy type
- no-weight

  Segment-list with no weight
- exceeds-protection-mode-allowed

  More than the protection policy allows
- admin-group-missing

  Admin group info not available at TE database

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-state *keyword*

Description Forwarding state of the segment-list, tells about the activeness of segment-list in the data-path. active - programmed in data path and enabled for forwarding traffic backup - Programmed in data path for uniform fail-over and forwarding sBFD / OAM packets, inactive - Programmed in data path as standby and forwarding sBFD / OAM packets.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* forwarding-state *keyword*

Tree forwarding-state

Options

- active
- inactive
- backup

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igp-metric *number*

Description IGP metric of given Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* igp-metric *number*

Tree igp-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-oper-state-change *string*

Description Time elapsed since the last operational state change for the segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-oper-state-change *string*

Tree last-oper-state-change

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-pce-update

Description Enter the last-pce-update context

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-pce-update

Tree last-pce-update

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failure-reason *identityref*

Description Indicates the reason code for last MBB failure.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-pce-update failure-reason *identityref*

Tree failure-reason

Options

- path-computation-request-timeout

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Path computation request timed out

- path-computation-no-route

  No valid route is returned for path computation request

- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list

- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops

- path-computation-routing-loop

  Path computation failure due to routing loop

- unknown

  Segment-list is down due to unknown reason

- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops

- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured

- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG

- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation

- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down

- unresolved-first-segment

  The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)

- fib-add-pending

  Segment-list is kept down, when adding next-hop into the FIB

- fib-add-failed

  FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy

- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.

- pce-update-with-empty-ero

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PCE update has empty Explicit Route Object (EROs)

- segment-list-admin-down

  Segment-list is administratively down
- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path
- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path
- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path
- sid-hops-with-invalid-path-computation

  SID hops (labeled hops) with path computation local-cspf/pcep is not allowed
- invalid-path-computation

  Segment-list with unsupported path computation method
- policy-down

  Traffic engineering policy is down
- pce-association-conflict

  PCE-association conflict
- retry-on-config-change

  Segment-list retry attempted due to config change
- clear-command

  Segment-list retry attempted due to manual clear command
- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available
- bfd-down

  BFD is reported down
- te-rtr-id-not-configured

  TE router ID config is missing
- pce-down

  PCE is unavailable
- pcc-down

  PCC is unavailable
- pce-error

  PCE response has error or timed-out
- pcc-error

  PCC responded with error

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- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded
- invalid-protection-mode

  Invalid protection mode for the TE-policy type
- no-weight

  Segment-list with no weight
- exceeds-protection-mode-allowed

  More than the protection policy allows
- admin-group-missing

  Admin group info not available at TE database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates whether the last update was successful or failed.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-pce-update state *keyword*

Tree state

Options

- success
- failure

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time *string*

Description Indicates the system time when the last update occured.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-pce-update time *string*

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Tree	time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

update-id *number*

Description	Indicates the last update ID which was processed.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-pce-update update-id *number*
Tree	update-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reoptimization-attempt *string*

Description	Time elapsed since last path re-optimization attempt on the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-reoptimization-attempt *string*
Tree	last-reoptimization-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-retry-attempt *string*

Description	Time elapsed since the last retry attempt to re-established the segment-list

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Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* last-retry-attempt *string*

Tree last-retry-attempt

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description Unique internal identifier of segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* lsp-id *number*

Tree lsp-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mbb

Description Enter the mbb context

The make-before-break operational information.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb

Tree mbb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-progress-mbb

Description Enter the in-progress-mbb context

The in progress make-before-break operational information.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb in-progress-mbb

Tree in-progress-mbb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Indicates the system time when the in-progress MBB started.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb in-progress-mbb start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Indicates the type of the make-before-break (MBB) that is in progress.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb in-progress-mbb type *keyword*

Tree type

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Options
- none
- timer-based-reoptimization
- manual-resignal
- pce-update

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-mbb

Description Enter the last-mbb context

The last make-before-break operational information.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb

Tree last-mbb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description Specifies the system time when the last MBB ended.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-reason *identityref*

Description Indicates the reason code for last MBB failure.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb failed-reason *identityref*

Tree failed-reason

Options

- path-computation-request-timeout

  Path computation request timed out

- path-computation-no-route

  No valid route is returned for path computation request

- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list

- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops

- path-computation-routing-loop

  Path computation failure due to routing loop

- unknown

  Segment-list is down due to unknown reason

- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops

- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured

- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG

- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation

- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down

- unresolved-first-segment

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The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)

- fib-add-pending

  Segment-list is kept down, when adding next-hop into the FIB

- fib-add-failed

  FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy

- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.

- pce-update-with-empty-ero

  PCE update has empty Explicit Route Object (EROs)

- segment-list-admin-down

  Segment-list is administratively down

- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path

- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path

- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path

- sid-hops-with-invalid-path-computation

  SID hops (labeled hops) with path computation local-cspf/pcep is not allowed

- invalid-path-computation

  Segment-list with unsupported path computation method

- policy-down

  Traffic engineering policy is down

- pce-association-conflict

  PCE-association conflict

- retry-on-config-change

  Segment-list retry attempted due to config change

- clear-command

  Segment-list retry attempted due to manual clear command

- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available

- bfd-down

  BFD is reported down

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- te-rtr-id-not-configured

  TE router ID config is missing
- pce-down

  PCE is unavailable
- pcc-down

  PCC is unavailable
- pce-error

  PCE response has error or timed-out
- pcc-error

  PCC responded with error
- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded
- invalid-protection-mode

  Invalid protection mode for the TE-policy type
- no-weight

  Segment-list with no weight
- exceeds-protection-mode-allowed

  More than the protection policy allows
- admin-group-missing

  Admin group info not available at TE database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

old-metric *number*

Description Metric of the Segment List prior to last MBB

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb old-metric *number*

Tree old-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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state *keyword*

Description Indicates whether the last make-before-break was successful, failed or was not required as path was already optimal.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb state *keyword*

Tree state

Options

- success
- failure
- path-optimal

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Indicates the type of the make-before-break (MBB) that is in progress.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* mbb last-mbb type *keyword*

Tree type

Options

- none
- timer-based-reoptimization
- manual-resignal
- pce-update

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description	Metric of a given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* metric *number*
Tree	metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-reoptimization-attempt *string*

Description	Time remaining for next path re-optimization attempt on the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* next-reoptimization-attempt *string*
Tree	next-reoptimization-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-retry-attempt *string*

Description	Time remaining for next retry attempt to re-established the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Segment list operational state

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* oper-state *keyword*

Tree oper-state

Options

- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-change-count *number*

Description Traffic Engineering Policy segment-list operational state change count Operational status trnasition from up to down, down to up, etc all accounted under this counter

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* oper-state-change-count *number*

Tree oper-state-change-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-computation-requests *number*

Description Number of path computation requests made for the segment-list

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* path-computation-requests *number*
Tree	path-computation-requests
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-control *boolean*

Description	PCE Control status for Traffic Engineering Policy Segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* pce-control *boolean*
Tree	pce-control
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-report *boolean*

Description	PCE Reporting for Traffic Engineering Policy Segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* pce-report *boolean*
Tree	pce-report
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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retry-attempts *number*

Description Number of unsuccessful attempts made to signal the segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* retry-attempts *number*

Tree retry-attempts

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer *number*

Description Revert timer for the segment-list.

Timer till a revert to primary/best path after it is recovered from a failure. In case of uncolored te-policy, applies to primary segment-list and in case of colored te-policy applies to best candidate path.

The default is 0 seconds.

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* revert-timer *number*

Tree revert-timer

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer-expiry *string*

Description Time remanining on revert-timer

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* revert-timer-expiry *string*

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Tree	revert-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-preference *number*

Description	Segment List preference for a given list under Traffic Engineering Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* segment-list-preference *number*
Tree	segment-list-preference
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-type *keyword*

Description	Segment-list type: primary, standby or secondary Standby is programmed in datapath, consumes resources and is ready for a failover any time. Secondary is programmed upon failure of the previous active
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* segment-list-type *keyword*
Tree	segment-list-type
Options	• primary • secondary • standby
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Segment-list egress statistics

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress

Tree egress

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description Number of octets transmitted by the TE policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress octets *number*

Tree octets

Default 0

Units byte

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description Number of packets transmitted by the TE policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress packets *number*

Tree packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description Indication whether resource allocation succeeded or failed for the set of counters

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress resource-allocation *keyword*

Tree resource-allocation

Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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te-metric *number*

Description	TE metric of given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* te-metric *number*
Tree	te-metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description	Weight of this segment list, used for weighted ECMP between segment lists
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* weight *number*
Tree	weight
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-count *number*

Description	Segment-list count for Candidate Path
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list-count *number*
Tree	segment-list-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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candidate-path-count *number*

Description	Colored Traffic Engineering Policy candidate-path count
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path-count *number*
Tree	candidate-path-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-time *string*

Description	Colored Traffic Engineering Policy creation time
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* created-time *string*
Tree	created-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	Time elapsed since the last operational state change for the Traffic Engineering Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric *number*

Description	Colored Traffic Engineering Policy metric
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* metric *number*
Tree	metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *identityref*

Description	The reason why the Traffic Engineering policy is operationally down. One of the following values:
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-down-reason *identityref*
Tree	oper-down-reason
Options	• te-policy-admin-disabled The TE policy is administratively disabled • te-policy-no-valid-segment-list The TE policy has no valid segment lists • te-policy-no-operational-candidate-path The TE policy has no operational Candidate Path
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Traffic Engineering policy operational state.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-state *keyword*
Tree	oper-state

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Options
- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-change-count *number*

Description Traffic Engineering Policy operational state change count Operational status trnasition from up to down, down to up, etc all accounted under this counter

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* oper-state-change-count *number*

Tree oper-state-change-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-type *keyword*

Description Colored Traffic Engineering Policy type

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* policy-type *keyword*

Tree policy-type

Options
- sr-mpls-colored
- sr-mpls-uncolored

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection

Description Enter the protection context

Protection context for TE Policy, hold and wait timers, sBFD, revertive behavior and alike available under this context

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protection
Tree	protection
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policy *string*

Description	The protection policy to use with the TE policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protection protection-policy *string*
Tree	protection-policy
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-path

Description	Enter the return-path context Context for defining return path identifier
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protection return-path
Tree	return-path
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that is used by reflector while responding to the sBFD request. Assigned value should uniquely identify the sender. Binding-SID or a Node-SID are commonly used options

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Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protection return-path mpls-label *number*

Tree mpls-label

Range 16 to 1048575

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description Number of operational segment-lists needed for candidate-path to be operational

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protection threshold *number*

Tree threshold

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress
Tree	ingress
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description	Number of octets received by the TE policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress octets *number*
Tree	octets
Default	0
Units	byte
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	Number of packets received by the TE policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description	Indication whether resource allocation succeeded or failed for the set of counters

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Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress resource-allocation *keyword*

Tree resource-allocation

Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-id *number*

Description Colored Traffic Engineering Policy unique tunnel identifier

Context network-instance name *string* traffic-engineering-policies policy-database sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* tunnel-id *number*

Tree tunnel-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-uncolored

Description Enter the sr-uncolored context

Uncolored Traffic Engineering Policy Paths. Also referred to as SR-TE LSPs

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored

Tree sr-uncolored

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policy policy-name *string* protocol-origin *keyword*

Description Enter the Uncolored Traffic Engineering Policy Path list instance Also refered to as SR-TE LSP list

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword*

Tree policy

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description Name of Uncolored Traffic Engineering Policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword*

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description Uncolored Traffic Engineering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-segment-list-index *number*

Description	Uncolored Traffic Engineering Policy active segment-list index
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* active-segment-list-index *number*
Tree	active-segment-list-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

binding-sid

Description	Enter the binding-sid context Identifier that opaquely represents the Colored Traffic Engineering Policy to upstream routers
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* binding-sid
Tree	binding-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocation-status *boolean*

Description	If the same BSID is used by another Colored TE-Policy candidate path or by an Uncolored TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* binding-sid allocation-status *boolean*
Tree	allocation-status
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that represents the Colored Traffic Engineering Policy to upstream routers
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* binding-sid mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-time *string*

Description	Uncolored Traffic Engineering Policy creation time
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* created-time *string*
Tree	created-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Uncolored Traffic Engineering Policy endpoint IP address
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	endpoint
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

head-end *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Uncolored Traffic Engineering Policy headend IP address
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* head-end *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	head-end
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	Time elapsed since the last operational state change for the Traffic Engineering Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	Uncolored Traffic Engineering Policy metric
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* metric *number*
Tree	metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-down-reason *identityref*

Description The reason why the Traffic Engineering policy is operationally down.

One of the following values:

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* oper-down-reason *identityref*

Tree oper-down-reason

Options

- te-policy-admin-disabled

  The TE policy is administratively disabled
- te-policy-no-valid-segment-list

  The TE policy has no valid segment lists
- te-policy-no-operational-candidate-path

  The TE policy has no operational Candidate Path

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Traffic Engineering policy operational state.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* oper-state *keyword*

Tree oper-state

Options

- up
- down

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-change-count *number*

Description Traffic Engineering Policy operational state change count Operational status trnasition from up to down, down to up, etc all accounted under this counter

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Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* oper-state-change-count *number*

Tree oper-state-change-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-type *keyword*

Description Uncolored Traffic Engineering Policy type

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* policy-type *keyword*

Tree policy-type

Options

- sr-mpls-colored
- sr-mpls-uncolored

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection

Description Enter the protection context

Protection context for TE Policy, hold and wait timers, sBFD, revertive behavior and alike available under this context

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* protection

Tree protection

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policy *string*

Description The protection policy to use with the TE policy

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* protection protection-policy *string*
Tree	protection-policy
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-path

Description	Enter the return-path context Context for defining return path identifier
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* protection return-path
Tree	return-path
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description	MPLS label that is used by reflector while responding to the sBFD request. Assigned value should uniquely identify the sender. Binding-SID or a Node-SID are commonly used options
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* protection return-path mpls-label *number*
Tree	mpls-label
Range	16 to 1048575
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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threshold *number*

Description	Number of operational segment-lists needed for candidate-path to be operational
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* protection threshold *number*
Tree	threshold
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list segment-list-index *number*

Description	Enter the segment-list list instance
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number*
Tree	segment-list
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Index to enumerate the different segment lists.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number*
Range	1 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd

Description	Enter the bfd context

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd
Tree	bfd
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd-state *keyword*

Description	The current state of the BFD session on the LSP path.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd bfd-state *keyword*
Tree	bfd-state
Options	• not-applicable • down • up
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bfd-wait-for-up-expiry *string*

Description	The time in seconds left to wait for the bfd session to be up.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd bfd-wait-for-up-expiry *string*
Tree	bfd-wait-for-up-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bfd-wait-for-up-timer *number*

Description	Specifies a wait-for-up timer value when seamless-bfd is enabled This timer takes effect if BFD does not come up, or BFD goes from up to down. The timer is started when BFD is first enabled on a segment-list or BFD transitions from up to down. When the timer expires if BFD is not yet come up, then the path is torn down by removing it from the TTM and the PI and the retry timer is started. The default is 3 seconds.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd bfd-wait-for-up-timer *number*
Tree	bfd-wait-for-up-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-down-timer *number*

Description	Specifies a hold-down timer value when seamless-bfd is enabled The timer is started when the number of S-BFD sessions that are up drops below the threshold. The TE-policy path is not considered to be up again until the hold-down timer has expired and the number of S-BFD sessions that are up equals or exceeds the threshold. A grace preiod after session down such that sBFD session flaps does not impact active path. The default is 3 seconds.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd hold-down-timer *number*
Tree	hold-down-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hold-down-timer-expiry *string*

Description	Time remaining on seamless-bfd hold down timer
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* bfd hold-down-timer-expiry *string*
Tree	hold-down-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-segments

Description	Enter the computed-segments context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments
Tree	computed-segments
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment segment-index *number*

Description	Enter the segment list instance
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number*
Tree	segment
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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segment-index *number*

Description Index to enumerate the different segments in a segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-type *keyword*

Description Hop type.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* hop-type *keyword*

Tree hop-type

Options

- ipv4
- ipv6
- unnum

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description IP Address for this hop.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* ip-address *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree ip-address

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-loose *boolean*

Description Indicates if this tunnel hop is loose.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* is-loose *boolean*

Tree is-loose

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-id *(ipv4-address | ipv6-address)*

Description The value of router ID.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* router-id *(ipv4-address | ipv6-address)*

Tree router-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-type *keyword*

Description Type of Segment Identifier (SID).

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-type *keyword*

Tree sid-type

Options

- not-applicable
- node-sid

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- adjacency-sid

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sid-value

Description Enter the sid-value context

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-value

Tree sid-value

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label *number*

Description Label recorded for this hop.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* sid-value mpls-label *number*

Tree mpls-label

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unnumbered-if-id *number*

Description The value of unnumbered interface identifier of this hop.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* computed-segments segment segment-index *number* unnumbered-if-id *number*

Tree unnumbered-if-id

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric *number*

Description Delay metric of given Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* delay-metric *number*

Tree delay-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic

Description Enter the dynamic context

Dynamic Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic

Tree dynamic

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-algorithm *keyword*

Description Algorithm used for computation of the Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic path-algorithm *keyword*

Tree path-algorithm

Options

- local-cspf
- pce

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Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-constraints

Description Enter the te-constraints context

Traffic Engineering constraints for dynamic segment-lists

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints

Tree te-constraints

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-metric-limit *(keyword | number)*

Description The maximum acceptable delay for the segment-list used via local CSPF during path computation

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints delay-metric-limit *(keyword | number)*

Tree delay-metric-limit

Range 1 to 16777215

Options

- no-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-admin-group *string*

Description Admin Group name to be excluded in path computation for all the segment-lists under the TE-Policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-

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list segment-list-index *number* dynamic te-constraints exclude-admin-group *string*

Tree exclude-admin-group

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Excluded IP addresses from path computation for the given Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints exclude-hop *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree exclude-hop

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-srlg *string*

Description SRLG links excluded during path computation for the given Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints exclude-srlg *string*

Tree exclude-srlg

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-limit *number*

Description Hop limit contraint used for computation of the Segment List

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints hop-limit *number*

Tree hop-limit

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-admin-group *string*

Description	Admin Group name to be included in path computation for all the segment-lists under the TE-Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints include-admin-group *string*
Tree	include-admin-group
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-stack-reduction *boolean*

Description	If label stack reduction is enabled for the given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints label-stack-reduction *boolean*
Tree	label-stack-reduction
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-sr-protection *keyword*

Description	Protection offered for local CSPF computed segment-lists
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints local-sr-protection *keyword*
Tree	local-sr-protection
Options	• none

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- preferred
- mandated

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric-type *keyword*

Description Metric type used for segment-list computation

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints metric-type *keyword*

Tree metric-type

Options

- igp
- te
- delay

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-associations

Description Enter the pce-associations context

PCE association policy and diversity

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints pce-associations

Tree pce-associations

Configurable False

Platforms Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms

diversity *reference*

Description List of diversity names

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list

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	segment-list-index *number* dynamic te-constraints pce-associations diversity *reference*
Tree	diversity
Reference	network-instance name *string* protocols pcep pcc pce-associations diversity association-name *string*
Configurable	False
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

policy-association *reference*

Description	List of PCE associations configured under the PCC
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints pce-associations policy-association *reference*
Tree	policy-association
Reference	network-instance name *string* protocols pcep pcc pce-associations policy association-name *string*
Configurable	False
Platforms	Supported on 7250 IXR-6/6e/10/10e/X1b/X3b platforms
Max. Elements	5

secondary-srlg *boolean*

Description	If SRLG constraints are taken into account while computing Secondary Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints secondary-srlg *boolean*
Tree	secondary-srlg
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-depth

Description	Enter the segment-depth context

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Configuration for the maximum number of SIDs/segments

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints segment-depth

Tree segment-depth

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-limit *number*

Description The maximum number of segments in the segment-list

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* dynamic te-constraints segment-depth segment-limit *number*

Tree segment-limit

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

explicit-path *string*

Description Explicit-path used for instantiating Segment List under Traffic Engineering Policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* explicit-path *string*

Tree explicit-path

String Length 1 to 255

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-reason *identityref*

Description The reason why the segment list is invalid.

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One of the following values:

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* failed-reason *identityref*

Tree failed-reason

Options

- path-computation-request-timeout

  Path computation request timed out

- path-computation-no-route

  No valid route is returned for path computation request

- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list

- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops

- path-computation-routing-loop

  Path computation failure due to routing loop

- unknown

  Segment-list is down due to unknown reason

- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops

- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured

- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG

- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation

- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down

- unresolved-first-segment

  The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)

- fib-add-pending

  Segment-list is kept down, when adding next-hop into the FIB

- fib-add-failed

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FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy

- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.

- pce-update-with-empty-ero

  PCE update has empty Explicit Route Object (EROs)

- segment-list-admin-down

  Segment-list is administratively down

- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path

- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path

- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path

- sid-hops-with-invalid-path-computation

  SID hops (labeled hops) with path computation local-cspf/pcep is not allowed

- invalid-path-computation

  Segment-list with unsupported path computation method

- policy-down

  Traffic engineering policy is down

- pce-association-conflict

  PCE-association conflict

- retry-on-config-change

  Segment-list retry attempted due to config change

- clear-command

  Segment-list retry attempted due to manual clear command

- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available

- bfd-down

  BFD is reported down

- te-rtr-id-not-configured

  TE router ID config is missing

- pce-down

  PCE is unavailable

- pcc-down

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PCC is unavailable

- pce-error

  PCE response has error or timed-out

- pcc-error

  PCC responded with error

- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded

- invalid-protection-mode

  Invalid protection mode for the TE-policy type

- no-weight

  Segment-list with no weight

- exceeds-protection-mode-allowed

  More than the protection policy allows

- admin-group-missing

  Admin group info not available at TE database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-state *keyword*

Description Forwarding state of the segment-list, tells about the activeness of segment-list in the data-path. active - programmed in data path and enabled for forwarding traffic backup - Programmed in data path for uniform fail-over and forwarding sBFD / OAM packets, inactive - Programmed in data path as standby and forwarding sBFD / OAM packets.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* forwarding-state *keyword*

Tree forwarding-state

Options

- active
- inactive
- backup

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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igp-metric *number*

Description	IGP metric of given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* igp-metric *number*
Tree	igp-metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-state-change *string*

Description	Time elapsed since the last operational state change for the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-oper-state-change *string*
Tree	last-oper-state-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-pce-update

Description	Enter the last-pce-update context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-pce-update
Tree	last-pce-update
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failure-reason *identityref*

Description Indicates the reason code for last MBB failure.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-pce-update failure-reason *identityref*

Tree failure-reason

Options

- path-computation-request-timeout

  Path computation request timed out
- path-computation-no-route

  No valid route is returned for path computation request
- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list
- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops
- path-computation-routing-loop

  Path computation failure due to routing loop
- unknown

  Segment-list is down due to unknown reason
- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops
- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured
- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG
- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation
- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down
- unresolved-first-segment

  The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)
- fib-add-pending

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Segment-list is kept down, when adding next-hop into the FIB

- fib-add-failed

  FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy

- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.

- pce-update-with-empty-ero

  PCE update has empty Explicit Route Object (EROs)

- segment-list-admin-down

  Segment-list is administratively down

- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path

- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path

- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path

- sid-hops-with-invalid-path-computation

  SID hops (labeled hops) with path computation local-cspf/pcep is not allowed

- invalid-path-computation

  Segment-list with unsupported path computation method

- policy-down

  Traffic engineering policy is down

- pce-association-conflict

  PCE-association conflict

- retry-on-config-change

  Segment-list retry attempted due to config change

- clear-command

  Segment-list retry attempted due to manual clear command

- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available

- bfd-down

  BFD is reported down

- te-rtr-id-not-configured

  TE router ID config is missing

- pce-down

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PCE is unavailable

- pcc-down

  PCC is unavailable
- pce-error

  PCE response has error or timed-out
- pcc-error

  PCC responded with error
- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded
- invalid-protection-mode

  Invalid protection mode for the TE-policy type
- no-weight

  Segment-list with no weight
- exceeds-protection-mode-allowed

  More than the protection policy allows
- admin-group-missing

  Admin group info not available at TE database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates whether the last update was successful or failed.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-pce-update state *keyword*

Tree state

Options

- success
- failure

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time *string*

Description	Indicates the system time when the last update occured.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-pce-update time *string*
Tree	time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

update-id *number*

Description	Indicates the last update ID which was processed.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-pce-update update-id *number*
Tree	update-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reoptimization-attempt *string*

Description	Time elapsed since last path re-optimization attempt on the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-reoptimization-attempt *string*
Tree	last-reoptimization-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-retry-attempt *string*

Description	Time elapsed since the last retry attempt to re-established the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* last-retry-attempt *string*
Tree	last-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-id *number*

Description	Unique internal identifier of segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* lsp-id *number*
Tree	lsp-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mbb

Description	Enter the mbb context The make-before-break operational information.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb
Tree	mbb
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-progress-mbb

Description Enter the in-progress-mbb context

The in progress make-before-break operational information.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb in-progress-mbb

Tree in-progress-mbb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Indicates the system time when the in-progress MBB started.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb in-progress-mbb start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Indicates the type of the make-before-break (MBB) that is in progress.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb in-progress-mbb type *keyword*

Tree type

Options

- none
- timer-based-reoptimization
- manual-resignal
- pce-update

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-mbb

Description Enter the last-mbb context

The last make-before-break operational information.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb

Tree last-mbb

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description Specifies the system time when the last MBB ended.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-reason *identityref*

Description Indicates the reason code for last MBB failure.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb failed-reason *identityref*

Tree failed-reason

Options

- path-computation-request-timeout

  Path computation request timed out

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- path-computation-no-route

  No valid route is returned for path computation request
- no-resources-available

  Required resources are depleted, not enough resources to estbalish the requested segment-list
- path-computation-bad-node

  Path computation failure due to a resolution issue of one or more of the hops
- path-computation-routing-loop

  Path computation failure due to routing loop
- unknown

  Segment-list is down due to unknown reason
- path-computation-no-route-owner

  Path computation failure as none of the IGP instances had a valid route to one of the hops
- path-computation-hop-limit-exceeded

  Path computation failure due to hop limit. No path within the hop limit constraint configured
- srlg-not-disjoint

  SRLG is shared with primary segment-list and there is no other viable path with dispersed SRLG
- srlg-not-computed-path

  SRLG is not applicable, as primary segment-list has no applicable SRLG for path computation
- srlg-primary-segment-list-down

  SRLG is not applicable, as primary segment-list is down
- unresolved-first-segment

  The router is unable to resolve the first SID (MPLS label value) into one or more outgoing interface(s) and next-hop(s)
- fib-add-pending

  Segment-list is kept down, when adding next-hop into the FIB
- fib-add-failed

  FIB has failed to add the next-hop group. Next-hop group represents a group of next-hops for valid segment-lists under a TE-policy
- maximum-label-stack-depth-exceeded

  The resolution of the named path requires more labels than supported by the datapath.
- pce-update-with-empty-ero

  PCE update has empty Explicit Route Object (EROs)

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- segment-list-admin-down

  Segment-list is administratively down
- ipv4-hops-in-ipv6-path

  IPv4 and IPv6 hops are mixed in explicit path
- ipv6-hops-in-ipv4-path

  IPv6 and IPv4 hops are mixed in explicit path
- sid-hops-in-ip-path

  SID (label-based) and IP hops are mixed in explicit path
- sid-hops-with-invalid-path-computation

  SID hops (labeled hops) with path computation local-cspf/pcep is not allowed
- invalid-path-computation

  Segment-list with unsupported path computation method
- policy-down

  Traffic engineering policy is down
- pce-association-conflict

  PCE-association conflict
- retry-on-config-change

  Segment-list retry attempted due to config change
- clear-command

  Segment-list retry attempted due to manual clear command
- secondary-segment-list

  Secondary type segment-list, Primary is always preferred when available
- bfd-down

  BFD is reported down
- te-rtr-id-not-configured

  TE router ID config is missing
- pce-down

  PCE is unavailable
- pcc-down

  PCC is unavailable
- pce-error

  PCE response has error or timed-out
- pcc-error

  PCC responded with error
- delay-metric-limit-exceeded

  Segment-list delay metric limit exceeded

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- invalid-protection-mode

  Invalid protection mode for the TE-policy type
- no-weight

  Segment-list with no weight
- exceeds-protection-mode-allowed

  More than the protection policy allows
- admin-group-missing

  Admin group info not available at TE database

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

old-metric *number*

Description Metric of the Segment List prior to last MBB

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb old-metric *number*

Tree old-metric

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates whether the last make-before-break was successful, failed or was not required as path was already optimal.

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb state *keyword*

Tree state

Options

- success
- failure
- path-optimal

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Indicates the type of the make-before-break (MBB) that is in progress.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* mbb last-mbb type *keyword*
Tree	type
Options	• none • timer-based-reoptimization • manual-resignal • pce-update
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	Metric of a given Segment List
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* metric *number*
Tree	metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-reoptimization-attempt *string*

Description	Time remaining for next path re-optimization attempt on the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* next-reoptimization-attempt *string*
Tree	next-reoptimization-attempt

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-retry-attempt *string*

Description	Time remaining for next retry attempt to re-established the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* next-retry-attempt *string*
Tree	next-retry-attempt
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Segment list operational state
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* oper-state *keyword*
Tree	oper-state
Options	• up • down
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-change-count *number*

Description	Traffic Engineering Policy segment-list operational state change count Operational status trnasition from up to down, down to up, etc all accounted under this counter

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* oper-state-change-count *number*
Tree	oper-state-change-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-computation-requests *number*

Description	Number of path computation requests made for the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* path-computation-requests *number*
Tree	path-computation-requests
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-control *boolean*

Description	PCE Control status for Traffic Engineering Policy Segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* pce-control *boolean*
Tree	pce-control
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pce-report *boolean*

Description	PCE Reporting for Traffic Engineering Policy Segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* pce-report *boolean*
Tree	pce-report

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry-attempts *number*

Description	Number of unsuccessful attempts made to signal the segment-list
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* retry-attempts *number*
Tree	retry-attempts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer *number*

Description	Revert timer for the segment-list. Timer till a revert to primary/best path after it is recovered from a failure. In case of uncolored te-policy, applies to primary segment-list and in case of colored te-policy applies to best candidate path. The default is 0 seconds.
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* revert-timer *number*
Tree	revert-timer
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer-expiry *string*

Description	Time remanining on revert-timer
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* revert-timer-expiry *string*

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Tree	revert-timer-expiry
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-preference *number*

Description	Segment List preference for a given list under Traffic Engineering Policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* segment-list-preference *number*
Tree	segment-list-preference
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-type *keyword*

Description	Segment-list type: primary, standby or secondary Standby is programmed in datapath, consumes resources and is ready for a failover any time. Secondary is programmed upon failure of the previous active
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* segment-list-type *keyword*
Tree	segment-list-type
Options	• primary • secondary • standby
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-metric *number*

Description	TE metric of given Segment List

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Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* te-metric *number*
Tree	te-metric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description	Weight of this segment list, used for weighted ECMP between segment lists
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* weight *number*
Tree	weight
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-count *number*

Description	Uncolored Traffic Engineering Policy segment-list count
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list-count *number*
Tree	segment-list-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics
Tree	statistics
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress

Tree egress

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description Number of octets transmitted by the TE policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress octets *number*

Tree octets

Default 0

Units byte

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description Number of packets transmitted by the TE policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress packets *number*

Tree packets

Default 0

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description Indication whether resource allocation succeeded or failed for the set of counters

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress resource-allocation *keyword*

Tree resource-allocation

Options

- success

  Counter resource allocation succeeded

- failed

  Counter resource allocation failed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress

Tree ingress

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

octets *number*

Description Number of octets received by the TE policy

Context network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress octets *number*

Tree octets

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Default	0
Units	byte
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets *number*

Description	Number of packets received by the TE policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress packets *number*
Tree	packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-allocation *keyword*

Description	Indication whether resource allocation succeeded or failed for the set of counters
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress resource-allocation *keyword*
Tree	resource-allocation
Options	• success Counter resource allocation succeeded • failed Counter resource allocation failed
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tag-set *reference*

Description	Tag-set associated with this uncolored te-policy
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* tag-set *reference*
Tree	tag-set
Reference	routing-policy tag-set name *string*
Configurable	False
Platforms	Supported on 7250 IXR, 7220 IXR

tunnel-id *number*

Description	Uncolored Traffic Engineering Policy unique tunnel identifier
Context	network-instance name *string* traffic-engineering-policies policy-database sr-uncolored policy policy-name *string* protocol-origin *keyword* tunnel-id *number*
Tree	tunnel-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-te-policies *number*

Description	Number of total Traffic Engineering Policies (irrespective of the operational state)
Context	network-instance name *string* traffic-engineering-policies policy-database total-te-policies *number*
Tree	total-te-policies
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

template template-name *string*

Description	List of traffic engineering policy templates
Context	network-instance name *string* traffic-engineering-policies template template-name *string*

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Tree	template
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4096

template-name *string*

Description	The name of the traffic engineering policy template
Context	network-instance name *string* traffic-engineering-policies template template-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric *number*

Description	Metric for the TE Policy template
Context	network-instance name *string* traffic-engineering-policies template template-name *string* metric *number*
Tree	metric
Range	1 to 16777215
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection

Description	Enter the protection context Protection context for TE Policy template, hold and wait timers, sBFD, revertive behavior and alike available under this context
Context	network-instance name *string* traffic-engineering-policies template template-name *string* protection
Tree	protection
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policy *reference*

Description	The protection policy for the TE policy template
Context	network-instance name *string* traffic-engineering-policies template template-name *string* protection protection-policy *reference*
Tree	protection-policy
Reference	system protection-policies policy protection-policy-name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Traffic Statistics
Context	network-instance name *string* traffic-engineering-policies template template-name *string* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description	Enter the egress context Egress-statistics context
Context	network-instance name *string* traffic-engineering-policies template template-name *string* statistics egress
Tree	egress
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Administrative state of the traffic statistics

Context network-instance name *string* traffic-engineering-policies template template-name *string* statistics egress admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

Ingress statistics context

Context network-instance name *string* traffic-engineering-policies template template-name *string* statistics ingress

Tree ingress

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of the traffic statistics

Context network-instance name *string* traffic-engineering-policies template template-name *string* statistics ingress admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-set *reference*

Description	Tag set to associate with an sr-mpls-uncolored TE policy template
Context	network-instance name *string* traffic-engineering-policies template template-name *string* tag-set *reference*
Tree	tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on 7250 IXR, 7220 IXR

template-id *(number | keyword)*

Description	Unique identifier for the TE Policy template Identifier is used by PCE as an unique identifier of the Segment List
Context	network-instance name *string* traffic-engineering-policies template template-name *string* template-id *(number | keyword)*
Tree	template-id
Range	1 to 4294967295
Default	default
Options	• default
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

template-type *keyword*

Description	Specifies the TE policy template type TE Policy can be of type sr-mpls-colored where label based segment-list or segment-lists constitute a candidate path and color with endpoint is used to configure a path. TE Policy can be of type uncolored in which case a single primary LSP can be backed by one or more secondary LSPs
Context	network-instance name *string* traffic-engineering-policies template template-name *string* template-type *keyword*

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Tree	template-type
Options	• pce-init
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-table

Description	Enter the tunnel-table context
Context	network-instance name *string* tunnel-table
Tree	tunnel-table
Configurable	False
Platforms	Supported on all platforms

ipv4

Description	Enter the ipv4 context The container for the IPv4 tunnels associated with the network instance.
Context	network-instance name *string* tunnel-table ipv4
Tree	ipv4
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* tunnel-table ipv4 statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-tunnels *number*

Description	Total active tunnels in this address family

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Context	network-instance name *string* tunnel-table ipv4 statistics active-tunnels *number*
Tree	active-tunnels
Configurable	False
Platforms	Supported on all platforms

fib-failed-tunnels *number*

Description	Total FIB-failed tunnels in this address family Tunnels counted here were not installed successfully because datapath resources were unavailable.
Context	network-instance name *string* tunnel-table ipv4 statistics fib-failed-tunnels *number*
Tree	fib-failed-tunnels
Default	0
Configurable	False
Platforms	Supported on all platforms

inactive-tunnels *number*

Description	Total inactive tunnels in this address family Tunnels counted here are inactive because hardware index resource-allocation failed.
Context	network-instance name *string* tunnel-table ipv4 statistics inactive-tunnels *number*
Tree	inactive-tunnels
Configurable	False
Platforms	Supported on all platforms

total-tunnels *number*

Description	Total tunnels in this address family This count includes active, inactive, and FIB-failed tunnels.
Context	network-instance name *string* tunnel-table ipv4 statistics total-tunnels *number*
Tree	total-tunnels
Default	0

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Configurable	False
Platforms	Supported on all platforms

tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*

Description	Enter the tunnel list instance
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*
Tree	tunnel
Configurable	False
Platforms	Supported on all platforms

ipv4-prefix *string*

Description	The IPv4 prefix associated with the endpoint of the tunnel.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	The tunnel (encapsulation) type
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation • gre Tunnels with GRE encapsulation • udp Tunnels with UDP encapsulation • sr-isis Segment routing using MPLS dataplane, programmed by IS-IS • sr-ospfv2 Segment routing using MPLS dataplane, programmed by OSPFv2 • sr-ospfv3 Segment routing using MPLS dataplane, programmed by OSPFv3

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- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

owner *string*

Description The name of the application that submitted the tunnel to TTM

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*

Configurable False

Platforms Supported on all platforms

id *number*

Description An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix.

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number*

Configurable False

Platforms Supported on all platforms

color *number*

Description Color associated with the sr-mpls-colored TE policy

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* color *number*

Tree color

Range 0 to 4294967295

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-programming

Description Enter the fib-programming context

Container for state related to the FIB programming of the object

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming

Tree fib-programming

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-operation-type *keyword*

Description The last operation type that failed.

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Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming pending-operation-type *keyword*

Tree pending-operation-type

Options

- add

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The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* fib-programming suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-id *number*

Description Flexible Algorithm identifier of the tunnel

Context network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* flex-algo-id *number*

Tree flex-algo-id

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Range	128 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gre

Description	Enter the gre context
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre
Tree	gre
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation

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Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* gre source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

igp-instance-id *number*

Description	IGP protocol instance ID associated with the tunnel
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* igp-instance-id *number*
Tree	igp-instance-id
Configurable	False
Platforms	Supported on all platforms

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internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

ip-in-ip

Description	Enter the ip-in-ip context
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* ip-in-ip
Tree	ip-in-ip
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the destination of the tunnel.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* ip-in-ip destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

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source-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the source of the tunnel.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* ip-in-ip source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

last-app-update *string*

Description	The date and time of the last update of this tunnel by the owning application or protocol.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* last-app-update *string*
Tree	last-app-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The metric of the tunnel.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	Leaf reference to a next-hop-group that has the direct next-hops towards the tunnel far-end
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*

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Configurable	False
Platforms	Supported on all platforms

preference *number*

Description	The tunnel table preference.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* preference *number*
Tree	preference
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	Hardware index allocation failure Set to true when a hardware index allocation failed for this tunnel, rendering it inactive.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

udp

Description	Enter the udp context
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp
Tree	udp
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp destination-address *(ipv4-address | ipv6-address)*

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Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

destination-udp-port *number*

Description	Destination UDP port number in the added UDP header Usually this reflects the encoded payload type
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp destination-udp-port *number*
Tree	destination-udp-port
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

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out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* udp source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

vxlan

Description	Enter the vxlan context
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* vxlan
Tree	vxlan
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* vxlan destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address

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Configurable	False
Platforms	Supported on all platforms

destination-udp-port *number*

Description	The destination UDP port number written into the outer IP/UDP header of VXLAN packets associated with this tunnel and originated by this router.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* vxlan destination-udp-port *number*
Tree	destination-udp-port
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the local VXLAN Termination Endpoint (VTEP).
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* vxlan source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

time-to-live *number*

Description	The Time To Live (TTL) value written into the outer IP header of VXLAN packets associated with this tunnel and originated by this router.
Context	network-instance name *string* tunnel-table ipv4 tunnel ipv4-prefix *string* type *identityref* owner *string* id *number* vxlan time-to-live *number*
Tree	time-to-live
Configurable	False
Platforms	Supported on all platforms

tunnel-summary

Description	Enter the tunnel-summary context Tunnel summary information
Context	network-instance name *string* tunnel-table ipv4 tunnel-summary

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Tree	tunnel-summary
Configurable	False
Platforms	Supported on all platforms

tunnel-type type *identityref*

Description	Enter the tunnel-type list instance
Context	network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref*
Tree	tunnel-type
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	Tunneling encapsulation format
Context	network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref*
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation • gre Tunnels with GRE encapsulation • udp Tunnels with UDP encapsulation • sr-isis Segment routing using MPLS dataplane, programmed by IS-IS • sr-ospfv2 Segment routing using MPLS dataplane, programmed by OSPFv2 • sr-ospfv3 Segment routing using MPLS dataplane, programmed by OSPFv3 • srv6-isis Segment routing using IPv6 dataplane, SRv6 • te-policy-sr-mpls-colored Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color • te-policy-sr-mpls-uncolored

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Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.

- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

active-tunnels *number*

Description Total active tunnels of this encapsulation type

Context network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref* active-tunnels *number*

Tree active-tunnels

Configurable False

Platforms Supported on all platforms

fib-failed-tunnels *number*

Description Total FIB-failed tunnels of this encapsulation type

Tunnels counted here were not installed successfully because datapath resources were unavailable.

Context network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref* fib-failed-tunnels *number*

Tree fib-failed-tunnels

Default 0

Configurable False

Platforms Supported on all platforms

inactive-tunnels *number*

Description Total inactive tunnels of this encapsulation type

Tunnels counted here are inactive because hardware index resource-allocation failed.

Context network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref* inactive-tunnels *number*

Tree inactive-tunnels

Configurable False

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Platforms	Supported on all platforms

total-tunnels *number*

Description	Total tunnels of this encapsulation type This count includes active, inactive, and FIB-failed tunnels.
Context	network-instance name *string* tunnel-table ipv4 tunnel-summary tunnel-type type *identityref* total-tunnels *number*
Tree	total-tunnels
Default	0
Configurable	False
Platforms	Supported on all platforms

ipv6

Description	Enter the ipv6 context The container for the IPv6 tunnels associated with the network instance.
Context	network-instance name *string* tunnel-table ipv6
Tree	ipv6
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* tunnel-table ipv6 statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-tunnels *number*

Description	Total active tunnels in this address family
Context	network-instance name *string* tunnel-table ipv6 statistics active-tunnels *number*
Tree	active-tunnels

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Configurable	False
Platforms	Supported on all platforms

fib-failed-tunnels *number*

Description	Total FIB-failed tunnels in this address family Tunnels counted here were not installed successfully because datapath resources were unavailable.
Context	network-instance name *string* tunnel-table ipv6 statistics fib-failed-tunnels *number*
Tree	fib-failed-tunnels
Default	0
Configurable	False
Platforms	Supported on all platforms

inactive-tunnels *number*

Description	Total inactive tunnels in this address family Tunnels counted here are inactive because hardware index resource-allocation failed.
Context	network-instance name *string* tunnel-table ipv6 statistics inactive-tunnels *number*
Tree	inactive-tunnels
Configurable	False
Platforms	Supported on all platforms

total-tunnels *number*

Description	Total tunnels in this address family This count includes active, inactive, and FIB-failed tunnels.
Context	network-instance name *string* tunnel-table ipv6 statistics total-tunnels *number*
Tree	total-tunnels
Default	0
Configurable	False
Platforms	Supported on all platforms

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tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*

Description	Enter the tunnel list instance
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*
Tree	tunnel
Configurable	False
Platforms	Supported on all platforms

ipv6-prefix *string*

Description	The IPv6 prefix associated with the endpoint of the tunnel.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*
Configurable	False
Platforms	Supported on all platforms

type *identityref*

Description	The tunnel (encapsulation) type
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*
Options	• ip-in-ip Tunnels with IP-in-IP encapsulation • gre Tunnels with GRE encapsulation • udp Tunnels with UDP encapsulation • sr-isis Segment routing using MPLS dataplane, programmed by IS-IS • sr-ospfv2 Segment routing using MPLS dataplane, programmed by OSPFv2 • sr-ospfv3 Segment routing using MPLS dataplane, programmed by OSPFv3 • srv6-isis Segment routing using IPv6 dataplane, SRv6 • te-policy-sr-mpls-colored

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Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color

- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.

- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms Supported on all platforms

owner *string*

Description The name of the application that submitted the tunnel to TTM

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*

Configurable False

Platforms Supported on all platforms

id *number*

Description An owner-assigned index value that is unique for each of the tunnels terminating at a particular prefix.

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number*

Configurable False

Platforms Supported on all platforms

color *number*

Description Color associated with the sr-mpls-colored TE policy

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* color *number*

Tree color

Range 0 to 4294967295

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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fib-programming

Description Enter the fib-programming context

Container for state related to the FIB programming of the object

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming

Tree fib-programming

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-locations *string*

Description List of forwarding complexes that reported a failure for the last operation. They appear in the format (slot-number,complex-number).

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming last-failed-locations *string*

Tree last-failed-locations

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-failed-operation-type *keyword*

Description The last operation type that failed.

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming last-failed-operation-type *keyword*

Tree last-failed-operation-type

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Options

- add

  The current or last operation was an attempt to create a new entry.
- delete

  The current or last operation was an attempt to delete an existing entry.
- modify

  The current or last operation was an attempt to modify an existing entry.
- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-successful-operation-timestamp *string*

Description The date and time of the last operation to complete successfully, if the entry was not suppressed.

A delete operation is immediately timestamped by FIB manager on the assumption that it will ultimately be successful on all complexes. For other operations the timestamp is generated when the last complex that was expected to respond has responded with a success acknowledgement.

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming last-successful-operation-timestamp *string*

Tree last-successful-operation-timestamp

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-successful-operation-type *keyword*

Description The last operation type that completed successfully, if the entry was not suppressed.

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming last-successful-operation-type *keyword*

Tree last-successful-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

  The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pending-operation-type *keyword*

Description The current operation type that is in progress because not all complexes have responded.

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming pending-operation-type *keyword*

Tree pending-operation-type

Options

- add

  The current or last operation was an attempt to create a new entry.

- delete

  The current or last operation was an attempt to delete an existing entry.

- modify

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The current or last operation was an attempt to modify an existing entry.

- none

  There was no prior operation for this entry or there is no current operation that is in process

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppressed *boolean*

Description When true, FIB programming for this entry has been suppressed and it is only installed in the control plane route table

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* fib-programming suppressed *boolean*

Tree suppressed

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flex-algo-id *number*

Description Flexible Algorithm identifier of the tunnel

Context network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* flex-algo-id *number*

Tree flex-algo-id

Range 128 to 255

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gre

Description	Enter the gre context
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre
Tree	gre
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre ip-ttl *number*

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Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* gre source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

igp-instance-id *number*

Description	IGP protocol instance ID associated with the tunnel
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* igp-instance-id *number*
Tree	igp-instance-id
Configurable	False
Platforms	Supported on all platforms

internal-tags *string*

Description	Internal route tag written in the route/tunnel tables or BGP rib

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The internal-tag value is shown with the format 'type-string = hex-value-string'. For example:

Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* internal-tags *string*
Tree	internal-tags
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

ip-in-ip

Description	Enter the ip-in-ip context
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* ip-in-ip
Tree	ip-in-ip
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the destination of the tunnel.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* ip-in-ip destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the source of the tunnel.

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Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* ip-in-ip source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

last-app-update *string*

Description	The date and time of the last update of this tunnel by the owning application or protocol.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* last-app-update *string*
Tree	last-app-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

metric *number*

Description	The metric of the tunnel.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* metric *number*
Tree	metric
Configurable	False
Platforms	Supported on all platforms

next-hop-group *reference*

Description	Leaf reference to a next-hop-group that has the direct next-hops towards the tunnel far-end
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* next-hop-group *reference*
Tree	next-hop-group
Reference	network-instance name *string* route-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

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preference *number*

Description	The tunnel table preference.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* preference *number*
Tree	preference
Configurable	False
Platforms	Supported on all platforms

resource-allocation-failed *boolean*

Description	Hardware index allocation failure Set to true when a hardware index allocation failed for this tunnel, rendering it inactive.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* resource-allocation-failed *boolean*
Tree	resource-allocation-failed
Configurable	False
Platforms	Supported on all platforms

udp

Description	Enter the udp context
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp
Tree	udp
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	Destination IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False

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Platforms	Supported on all platforms

destination-udp-port *number*

Description	Destination UDP port number in the added UDP header Usually this reflects the encoded payload type
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp destination-udp-port *number*
Tree	destination-udp-port
Range	0 to 65535
Configurable	False
Platforms	Supported on all platforms

in-profile-dscp *number*

Description	DSCP value in the outer IP header except when the packet is out of profile
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp in-profile-dscp *number*
Tree	in-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

ip-ttl *number*

Description	IP TTL in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp ip-ttl *number*
Tree	ip-ttl
Configurable	False
Platforms	Supported on all platforms

out-profile-dscp *number*

Description	DSCP value in the outer IP header when the packet was policed as out of profile

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Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp out-profile-dscp *number*
Tree	out-profile-dscp
Range	0 to 63
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The source IP address in the outer IP header added by GRE encapsulation
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* udp source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

vxlan

Description	Enter the vxlan context
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* vxlan
Tree	vxlan
Configurable	False
Platforms	Supported on all platforms

destination-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* vxlan destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	Supported on all platforms

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destination-udp-port *number*

Description	The destination UDP port number written into the outer IP/UDP header of VXLAN packets associated with this tunnel and originated by this router.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* vxlan destination-udp-port *number*
Tree	destination-udp-port
Configurable	False
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the local VXLAN Termination Endpoint (VTEP).
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* vxlan source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	False
Platforms	Supported on all platforms

time-to-live *number*

Description	The Time To Live (TTL) value written into the outer IP header of VXLAN packets associated with this tunnel and originated by this router.
Context	network-instance name *string* tunnel-table ipv6 tunnel ipv6-prefix *string* type *identityref* owner *string* id *number* vxlan time-to-live *number*
Tree	time-to-live
Configurable	False
Platforms	Supported on all platforms

tunnel-summary

Description	Enter the tunnel-summary context Tunnel summary information
Context	network-instance name *string* tunnel-table ipv6 tunnel-summary
Tree	tunnel-summary
Configurable	False

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Platforms Supported on all platforms

tunnel-type type *identityref*

Description Enter the tunnel-type list instance

Context network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref*

Tree tunnel-type

Configurable False

Platforms Supported on all platforms

type *identityref*

Description Tunneling encapsulation format

Context network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref*

Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

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Tunnels based on VXLAN encapsulation

Configurable	False
Platforms	Supported on all platforms

active-tunnels *number*

Description	Total active tunnels of this encapsulation type
Context	network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref* active-tunnels *number*
Tree	active-tunnels
Configurable	False
Platforms	Supported on all platforms

fib-failed-tunnels *number*

Description	Total FIB-failed tunnels of this encapsulation type Tunnels counted here were not installed successfully because datapath resources were unavailable.
Context	network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref* fib-failed-tunnels *number*
Tree	fib-failed-tunnels
Default	0
Configurable	False
Platforms	Supported on all platforms

inactive-tunnels *number*

Description	Total inactive tunnels of this encapsulation type Tunnels counted here are inactive because hardware index resource-allocation failed.
Context	network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref* inactive-tunnels *number*
Tree	inactive-tunnels
Configurable	False
Platforms	Supported on all platforms

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total-tunnels *number*

Description Total tunnels of this encapsulation type

This count includes active, inactive, and FIB-failed tunnels.

Context network-instance name *string* tunnel-table ipv6 tunnel-summary tunnel-type type *identityref* total-tunnels *number*

Tree total-tunnels

Default 0

Configurable False

Platforms Supported on all platforms

type *identityref*

Description The type of network instance. The value of this leaf indicates the type of forwarding entries that should be supported by this network instance

Context network-instance name *string* type *identityref*

Tree type

Default default

Options

- host

  A special routing instances that refers to the hosts network instance (i.e. the network namespace of PID 1)

- default

  A special routing instance which acts as the 'default' routing instance for a network device.

- ip-vrf

  A private Layer 3 only routing instance.

- mac-vrf

  A private Layer 2 only switching instance.

- vpws

  A private Layer 2 point-to-point instance.

Configurable True

Platforms Supported on all platforms

udp

Description Enter the udp context

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State for UDP datagrams routed using the route tables of this network instance.

Context network-instance name *string* udp

Tree udp

Configurable False

Platforms Supported on all platforms

listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Description List of applications that are listening on a particular UDP port bound to the network-instance.

Context network-instance name *string* udp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Tree listening-application

Configurable False

Platforms Supported on all platforms

local-address *(ipv4-address | ipv6-address)*

Description The local IP address accepted by the application. An all-zeroes value for the ipv4-address means that any IPv4 address is accepted. An all-zeroes value for the ipv6-address means that any IPv6 address is accepted.

Context network-instance name *string* udp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Configurable False

Platforms Supported on all platforms

local-port *number*

Description The local port number accepted by the application.

Context network-instance name *string* udp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number*

Range 0 to 65535

Configurable False

Platforms Supported on all platforms

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process-id *number*

Description	The process ID of the application that owns the socket.
Context	network-instance name *string* udp listening-application local-address *(ipv4-address | ipv6-address)* local-port *number* process-id *number*
Tree	process-id
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* udp statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

ignored-multicast-packets *number*

Description	The total number of ignored multicast UDP datagrams.
Context	network-instance name *string* udp statistics ignored-multicast-packets *number*
Tree	ignored-multicast-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-checksum-errors *number*

Description	Increased when a received UDP packet has an invalid checksum.
Context	network-instance name *string* udp statistics in-checksum-errors *number*
Tree	in-checksum-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

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in-error-packets *number*

Description	The total number of received UDP datagrams that could not be delivered for reasons other than the lack of an application at the destination port.
Context	network-instance name *string* udp statistics in-error-packets *number*
Tree	in-error-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-no-open-ports-packets *number*

Description	The total number of received UDP datagrams for whichthere was no application at the destination port.
Context	network-instance name *string* udp statistics in-no-open-ports-packets *number*
Tree	in-no-open-ports-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

in-packets *number*

Description	The total number of UDP datagrams delivered to UDP users.
Context	network-instance name *string* udp statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	Supported on all platforms

out-packets *number*

Description	The total number of UDP datagrams sent from this network instance.
Context	network-instance name *string* udp statistics out-packets *number*
Tree	out-packets
Default	0

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Configurable	False
Platforms	Supported on all platforms

receive-buffer-errors *number*

Description	Increased when memory cannot be allocated to process an incoming UDP packet.
Context	network-instance name *string* udp statistics receive-buffer-errors *number*
Tree	receive-buffer-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

send-buffer-errors *number*

Description	Increased when memory cannot be allocated to send a UDP packet.
Context	network-instance name *string* udp statistics send-buffer-errors *number*
Tree	send-buffer-errors
Default	0
Configurable	False
Platforms	Supported on all platforms

vxlan-interface name *string*

Description	List of vxlan-interfaces used by this network-instance
Context	network-instance name *string* vxlan-interface name *string*
Tree	vxlan-interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

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name *string*

Description Identifier of vxlan-interface used in this network-instance

Context network-instance name *string* vxlan-interface name *string*

String Length 8 to 17

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description Enable the bridge-table context

Context network-instance name *string* vxlan-interface name *string* bridge-table

Tree bridge-table

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain *number*

Description Domain of this vxlan-interface within the MAC-VRF

The default is 1. In a multi-instance MAC-VRF VXLAN-to-VXLAN deployment where the network-instance has two vxlan-interfaces, each vxlan-interface must be configured with a different domain (1 or 2). For example, if the first vxlan-interface uses domain 1, the second must use domain 2. Distinct domains ensure each vxlan-interface receives separate split-horizon group and multicast identifier (MCID) allocations, which is required for proper operation of the multi-instance MAC-VRF.

Context network-instance name *string* vxlan-interface name *string* bridge-table domain *number*

Tree domain

Range 1 to 2

Default 1

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the vxlan-interface being down in the network-instance

Context network-instance name *string* vxlan-interface name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- vxlan-tunnel-down
- net-inst-down
- vxlan-if-default-net-inst-source-address-missing
- vxlan-if-default-net-inst-source-if-down
- vrf-type-mismatch
- no-mcid

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of this vxlan-interface.

Context network-instance name *string* vxlan-interface name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory

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- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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7 oam

```
oam
+  congestion-signaling
   +  admin-state keyword
   +  compact
      +  quantization-parameters
         +  available-bandwidth
            +  algorithm keyword
            +  bucket index number
               +  maximum-value number
         +  delay
            +  algorithm keyword
            +  bucket index number
               +  maximum-value number
         +  relative-available-bandwidth
            +  algorithm keyword
            -  bucket index number
               -  maximum-value number
   +  interval keyword
   +  node-locator number
   -  oper-state keyword
   -  statistics
      -  available-bandwidth-byte-counter number
      -  available-bandwidth-packet-counter number
      x  clear
      -  delay-byte-counter number
      -  delay-packet-counter number
      -  relative-available-bandwidth-byte-counter number
      -  relative-available-bandwidth-packet-counter number
   +  tag-length keyword
   +  tpid number
   +  wide
      +  quantization-parameters
         +  available-bandwidth
            +  algorithm keyword
            +  bucket index number
               +  maximum-value number
         +  delay
            +  algorithm keyword
            +  step number
         +  relative-available-bandwidth
            +  algorithm keyword
            -  step number
+  ethcfm
   -  cfm-stack-table
      -  interface
         -  interface interface string level number direction keyword
            -  association-id string
            -  defects keyword
            -  domain-id string
            -  mac-address string
            -  mep-id number
      -  subinterface
         -  subinterface subinterface string primary-vlan (number |
 keyword) level number direction keyword
            -  association-id string
            -  defects keyword
```


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```
          -  domain-id string
          -  mac-address string
          -  mep-id number
          -  subinterface-type string
+  domain domain-id string
   +  association association-id string
      -  association-auto-discovered-meps mep-id number
      +  association-format keyword
      +  association-meps mep-id number
      +  ccm-hold-time
         +  delay-timeout number
      +  ccm-interval keyword
      +  ma-name
         +  icc-value string
         +  id string
         +  name string
         +  number number
         +  vid number
      +  mep mep-id reference
         +  admin-state keyword
         +  ccm-ltm-priority number
         +  continuity-check
            -  active-defects keyword
            +  ccm-local-fault
               +  action keyword
            -  ccm-sequence-error-count number
            +  ccm-transmit keyword
            -  highest-priority-defect-found keyword
            -  last-cross-connect-ccm binary
            -  last-error-ccm binary
            +  lowest-fault-priority-defect keyword
            -  sent-interface-status keyword
            -  sent-port-status keyword
            -  sent-remote-defect-indicator boolean
         +  direction keyword
         +  interface-ref
            +  interface reference
            +  subinterface reference
         -  linktrace
            -  latest-run
               -  destination-mac-address string
               -  end-time string
               -  priority number
               -  remote-mep-id number
               -  reply reply-order number
                  -  chassis-id (mac-address | string | binary)
                  -  chassis-id-subtype (number | keyword)
                  -  egress-action keyword
                  -  egress-mac string
                  -  egress-port-id
                     -  port-id-subtype keyword
                     -  value (mac-address | string | binary)
                  -  forwarded boolean
                  -  ingress-action keyword
                  -  ingress-mac string
                  -  ingress-port-id
                     -  port-id-subtype keyword
                     -  value (mac-address | string | binary)
                  -  last-egress-identifier
                     -  integer number
                     -  mac-address string
                  -  ltr-relay keyword
                  -  management-address string
                  -  management-address-domain string
```


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```
                  - next-egress-identifier
                     - integer number
                     - mac-address string
                  - reply-ttl number
                  - terminal-mep boolean
               - start-time string
               - test-status keyword
               - transaction-id number
               - transmit-ltm-flags bits
               - ttl number
            - next-transaction-number number
            - status keyword
            - unexpected-ltr-received number
         - loopback
            - multicast-latest-run
               - data-length number
               - end-time string
               - interval keyword
               - priority number
               - remote-mep-mac remote-mac-address string
                  - sequence-number sequence-number number received-index number
               - start-time string
               - statistics
                  - received-packets number
                  - received-unexpected-sequence-number number
                  - transmitted-packets number
               - test-status keyword
            - next-sequence-number number
            - status keyword
            - unicast-latest-run
               - data-length number
               - destination-mac-address string
               - end-time string
               - interval keyword
               - priority number
               - remote-mep-id number
               - sequence-number number
               - start-time string
               - statistics
                  - packet-loss decimal-number
                  - received-bad-msdu number
                  - received-in-order number
                  - received-out-of-order number
                  - received-unexpected-sequence-number number
                  - sent-packets number
               - test-status keyword
         + mac-address
            + custom-address string
            + custom-mac-pool
               + index number
               + name reference
            + system-mac-pool-index number
         + on-demand
         - remote-mep remote-mep-id number
            - auto-discovered boolean
            - chassis-id (mac-address | string | binary)
            - chassis-id-subtype (number | keyword)
            - interface-status-tlv keyword
            - mac-address string
            - management-address string
            - management-address-domain string
            - port-status-tlv keyword
            - receiving-ccm boolean
            - remote-defect-indicator boolean
```


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```
               -  remote-mep-failed-ok-time number
               -  remote-mep-state keyword
         +  network-instance
            +  name reference
         +  remote-mep-auto-discovery
            +  admin-state keyword
            +  aging-timer (number | keyword)
      +  domain-format keyword
      +  level number
      +  md-name
         +  dns string
         +  mac string
         +  name string
         +  two-octet-int number
   -  learned-remote-mac domain-id string association-id string local-mep-id number remote-mep-
id number
      -  remote-mac-address string
      -  stale-flag boolean
   +  mac-allocation
      +  custom-mac-pool name string
         +  count number
         -  highest-index-in-use number
         -  mac-address index number mac-address string
         +  starting-mac string
      -  interface name string
         -  forwarding-complex number
         -  linecard number
         -  mep domain-id string association-id string mep-id number
            -  custom-mac-pool-name string
            -  index number
            -  mac-address string
            -  mac-allocated-type keyword
            -  subinterface string
      +  mode keyword
      -  network-instance name string
         -  subinterface name string
            -  mep domain-id string association-id string mep-id number
               -  custom-mac-pool-name string
               -  duplicate-mac boolean
               -  index number
               -  mac-address string
               -  mac-allocated-type keyword
      -  system-mac-pool
         -  count number
         -  mac-address index number mac-address string
         -  starting-mac string
   -  statistics
      -  error-discards number
      -  receive-congestion-drops number
      -  receive-count number
      -  transmit-congestion-drops number
      -  transmit-count number
+  ippm
   +  source-udp-port-pools
      +  port port-number number
         +  application-assignment keyword
         -  in-use boolean
+  link-measurement
   +  interface name string
      -  aggregate-newest-index number
      -  destination-ip-auto-assigned boolean
      -  detectable-transmit-error keyword
      +  dynamic-measurement
         +  link-measurement
```


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```
            +  lag-micro-sessions boolean
            +  link-measurement-template reference
         +  protocol
            +  ipv4
               +  admin-state keyword
               +  destination-ip string
               +  source-ip string
            +  ipv6
               +  admin-state keyword
               +  destination-ip string
               +  source-ip string
      -  in-use-destination-udp-port number
      -  in-use-source-udp-port number
      -  interface reference
      +  interface-ref
         +  interface reference
         +  subinterface reference
      -  lag reference
      -  lag-micro-sessions
         -  lag name reference
            -  member name reference
               -  aggregate-newest-index number
               -  detectable-transmit-error keyword
               -  frame-discards
                  -  reflector-micro-session-id-zero number
                  -  sender-micro-session-id-mismatch number
                  -  sender-micro-session-id-zero number
               -  oper-state keyword
               -  reflector-micro-session-id number
               -  reflector-micro-session-id-change-count number
               -  sample-newest-index number
               -  sender-micro-session-id number
               -  stamp-session-identifier number
               -  statistics
                  -  aggregate-sample-window
                     -  index index number
                        -  average number
                        -  end-timestamp-utc string
                        -  integrity boolean
                        -  maximum number
                        -  minimum number
                        -  result number
                        -  sample-window-count number
                        -  window-state keyword
                  -  sample-window
                     -  index index number
                        -  average number
                        -  duplicate-packet-count number
                        -  end-timestamp-utc string
                        -  error-count number
                        -  integrity boolean
                        -  maximum number
                        -  minimum number
                        -  received-packets number
                        -  result number
                        -  stamp-malformed-flag-count number
                        -  stamp-unrecognized-flag-count number
                        -  transmitted-packets number
                        -  window-state keyword
                        -  zero-or-negative-delay-count number
               -  waiting-for-resource keyword
      -  lag-micro-sessions-count number
      -  last-reported-dynamic-delay (number | keyword)
      -  measurement-source string
```


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```
      -  oper-state keyword
      -  operational-destination-address (ipv4-address | ipv6-address)
      -  operational-failure keyword
      -  operational-source-address (ipv4-address | ipv6-address)
      -  report-timestamp string
      -  report-triggered-by keyword
      -  reporting boolean
      -  sample-newest-index number
      -  source-ip-auto-assigned boolean
      -  stamp-session-identifier number
      -  statistics
         -  aggregate-sample-window
            -  index index number
               -  average number
               -  end-timestamp-utc string
               -  integrity boolean
               -  maximum number
               -  minimum number
               -  result number
               -  sample-window-count number
               -  window-state keyword
         -  sample-window
            -  index index number
               -  average number
               -  duplicate-packet-count number
               -  end-timestamp-utc string
               -  error-count number
               -  integrity boolean
               -  maximum number
               -  minimum number
               -  received-packets number
               -  result number
               -  stamp-malformed-flag-count number
               -  stamp-unrecognized-flag-count number
               -  transmitted-packets number
               -  window-state keyword
               -  zero-or-negative-delay-count number
      -  waiting-for-resource keyword
   +  measurement-template template-name string
      +  admin-state keyword
      +  aggregate-sample-window
         +  multiplier number
         +  threshold
            +  absolute number
            +  relative number
         +  window-integrity number
      +  delay keyword
      +  description string
      +  interval number
      +  ip
         +  destination-udp-port number
         +  dscp (number | keyword)
         +  forwarding-class reference
         +  ipv6-destination-discovery
            +  admin-state keyword
            +  discovery-interval number
            +  discovery-timer number
            +  update-interval number
         +  profile keyword
         +  source-udp-port number
         +  ttl number
      +  last-reported-dynamic-delay-hold number
      +  pdu-type
         +  stamp
```


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```
            +  pad-tlv-size number
            +  return-path
               +  selection keyword
         +  twamp-light
      -  reference-active number
      -  reference-total number
      +  reporting boolean
      +  sample-window
         +  multiplier number
         +  threshold
            +  absolute number
            +  relative number
         +  window-integrity number
      +  unidirectional-measurement keyword
   -  resources
      -  interface
         -  in-use number
         -  limit number
      -  template
         -  in-use number
         -  limit number
      -  transmit
         -  in-use decimal-number
         -  limit number
      -  waiting-for-resources
         -  count number
         -  interface name string
            -  member name string
-  lsp-ping
   -  ldp
      -  fec prefix (ipv4-prefix | ipv6-prefix)
         -  session-id id number
            -  path-destination
               -  ip-address (ipv4-address | ipv6-address)
               -  next-hop (ipv4-address | ipv6-address)
               -  subinterface string
            -  sequence sequence-id number
               -  out-interface string
               -  probe-size number
               -  reply
                  -  mpls-ttl number
                  -  received boolean
                  -  reply-sender (ipv4-address | ipv6-address)
                  -  return-code keyword
                  -  return-subcode number
                  -  round-trip-time number
                  -  udp-data-length number
               -  request-sent boolean
               -  send-failure-reason keyword
            -  statistics
               -  round-trip-time
                  -  average number
                  -  maximum number
                  -  minimum number
                  -  standard-deviation number
            -  test-active boolean
   -  rsvp-te
      -  tunnel tunnel-name string
         -  session-id id number
            -  path-destination
               -  ip-address (ipv4-address | ipv6-address)
               -  next-hop (ipv4-address | ipv6-address)
               -  subinterface string
            -  sequence sequence-id number
```


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```
               - out-interface string
               - probe-size number
               - reply
                  - mpls-ttl number
                  - received boolean
                  - reply-sender (ipv4-address | ipv6-address)
                  - return-code keyword
                  - return-subcode number
                  - round-trip-time number
                  - udp-data-length number
               - request-sent boolean
               - send-failure-reason keyword
            - statistics
               - round-trip-time
                  - average number
                  - maximum number
                  - minimum number
                  - standard-deviation number
            - test-active boolean
   - sr-isis
      - prefix-sid prefix (ipv4-prefix | ipv6-prefix)
         - session-id id number
            - path-destination
               - ip-address (ipv4-address | ipv6-address)
               - next-hop (ipv4-address | ipv6-address)
               - subinterface string
            - sequence sequence-id number
               - out-interface string
               - probe-size number
               - reply
                  - mpls-ttl number
                  - received boolean
                  - reply-sender (ipv4-address | ipv6-address)
                  - return-code keyword
                  - return-subcode number
                  - round-trip-time number
                  - udp-data-length number
               - request-sent boolean
               - send-failure-reason keyword
            - statistics
               - round-trip-time
                  - average number
                  - maximum number
                  - minimum number
                  - standard-deviation number
            - test-active boolean
   - te-policy
      - sr-colored
         - policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            - session-id id number
               - path-destination
                  - ip-address (ipv4-address | ipv6-address)
                  - next-hop (ipv4-address | ipv6-address)
                  - subinterface string
               - sequence sequence-id number
                  - out-interface string
                  - probe-size number
                  - reply
                     - mpls-ttl number
                     - received boolean
                     - reply-sender (ipv4-address | ipv6-address)
                     - return-code keyword
                     - return-subcode number
```


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```
                     - round-trip-time number
                     - udp-data-length number
                  - request-sent boolean
                  - send-failure-reason keyword
               - statistics
                  - round-trip-time
                     - average number
                     - maximum number
                     - minimum number
                     - standard-deviation number
               - test-active boolean
      - sr-uncolored
         - policy policy-name string protocol-origin keyword
            - session-id id number
               - path-destination
                  - ip-address (ipv4-address | ipv6-address)
                  - next-hop (ipv4-address | ipv6-address)
                  - subinterface string
               - sequence sequence-id number
                  - out-interface string
                  - probe-size number
                  - reply
                     - mpls-ttl number
                     - received boolean
                     - reply-sender (ipv4-address | ipv6-address)
                     - return-code keyword
                     - return-subcode number
                     - round-trip-time number
                     - udp-data-length number
                  - request-sent boolean
                  - send-failure-reason keyword
               - statistics
                  - round-trip-time
                     - average number
                     - maximum number
                     - minimum number
                     - standard-deviation number
               - test-active boolean
-  lsp-trace
   -  ldp
      -  fec prefix (ipv4-prefix | ipv6-prefix)
         -  session-id id number
            -  hop hop-index number
               -  probe probe-index number
                  -  downstream-detailed-mapping id number
                     -  address-type keyword
                     -  downstream-interface-address (ipv4-address | ipv6-address)
                     -  downstream-router-address (ipv4-address | ipv6-address)
                     -  mpls-label index number
                        -  label (number | keyword)
                        -  protocol keyword
                     -  mtu number
                  -  last-probe-send-failure-reason keyword
                  -  probe-size number
                  -  probes-sent number
                  -  reply
                     -  mpls-ttl number
                     -  received boolean
                     -  reply-sender (ipv4-address | ipv6-address)
                     -  return-code keyword
                     -  return-subcode number
                     -  round-trip-time number
                     -  udp-data-length number
            -  path-destination
```


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```
            - ip-address (ipv4-address | ipv6-address)
            - next-hop (ipv4-address | ipv6-address)
            - subinterface string
         - test-active boolean
- rsvp-te
   - tunnel tunnel-name string
      - session-id id number
         - hop hop-index number
            - probe probe-index number
               - downstream-detailed-mapping id number
                  - address-type keyword
                  - downstream-interface-address (ipv4-address | ipv6-address)
                  - downstream-router-address (ipv4-address | ipv6-address)
                  - mpls-label index number
                     - label (number | keyword)
                     - protocol keyword
                  - mtu number
               - last-probe-send-failure-reason keyword
               - probe-size number
               - probes-sent number
               - reply
                  - mpls-ttl number
                  - received boolean
                  - reply-sender (ipv4-address | ipv6-address)
                  - return-code keyword
                  - return-subcode number
                  - round-trip-time number
                  - udp-data-length number
         - path-destination
            - ip-address (ipv4-address | ipv6-address)
            - next-hop (ipv4-address | ipv6-address)
            - subinterface string
         - test-active boolean
- sr-isis
   - prefix-sid prefix (ipv4-prefix | ipv6-prefix)
      - session-id id number
         - hop hop-index number
            - probe probe-index number
               - downstream-detailed-mapping id number
                  - address-type keyword
                  - downstream-interface-address (ipv4-address | ipv6-address)
                  - downstream-router-address (ipv4-address | ipv6-address)
                  - mpls-label index number
                     - label (number | keyword)
                     - protocol keyword
                  - mtu number
               - last-probe-send-failure-reason keyword
               - probe-size number
               - probes-sent number
               - reply
                  - mpls-ttl number
                  - received boolean
                  - reply-sender (ipv4-address | ipv6-address)
                  - return-code keyword
                  - return-subcode number
                  - round-trip-time number
                  - udp-data-length number
         - path-destination
            - ip-address (ipv4-address | ipv6-address)
            - next-hop (ipv4-address | ipv6-address)
            - subinterface string
         - test-active boolean
- te-policy
   - sr-colored
```


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```
         -  policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            -  session-id id number
               -  hop hop-index number
                  -  probe probe-index number
                     -  downstream-detailed-mapping id number
                        -  address-type keyword
                        -  downstream-interface-address (ipv4-address | ipv6-address)
                        -  downstream-router-address (ipv4-address | ipv6-address)
                        -  mpls-label index number
                           -  label (number | keyword)
                           -  protocol keyword
                        -  mtu number
                     -  last-probe-send-failure-reason keyword
                     -  probe-size number
                     -  probes-sent number
                     -  reply
                        -  mpls-ttl number
                        -  received boolean
                        -  reply-sender (ipv4-address | ipv6-address)
                        -  return-code keyword
                        -  return-subcode number
                        -  round-trip-time number
                        -  udp-data-length number
               -  path-destination
                  -  ip-address (ipv4-address | ipv6-address)
                  -  next-hop (ipv4-address | ipv6-address)
                  -  subinterface string
               -  test-active boolean
      -  sr-uncolored
         -  policy policy-name string protocol-origin keyword
            -  session-id id number
               -  hop hop-index number
                  -  probe probe-index number
                     -  downstream-detailed-mapping id number
                        -  address-type keyword
                        -  downstream-interface-address (ipv4-address | ipv6-address)
                        -  downstream-router-address (ipv4-address | ipv6-address)
                        -  mpls-label index number
                           -  label (number | keyword)
                           -  protocol keyword
                        -  mtu number
                     -  last-probe-send-failure-reason keyword
                     -  probe-size number
                     -  probes-sent number
                     -  reply
                        -  mpls-ttl number
                        -  received boolean
                        -  reply-sender (ipv4-address | ipv6-address)
                        -  return-code keyword
                        -  return-subcode number
                        -  round-trip-time number
                        -  udp-data-length number
               -  path-destination
                  -  ip-address (ipv4-address | ipv6-address)
                  -  next-hop (ipv4-address | ipv6-address)
                  -  subinterface string
               -  test-active boolean
+  performance-monitoring
   +  ethcfm
      +  delay
         +  bin-group bin-group-name string
            +  admin-state keyword
            +  bin-type bin-metric keyword
```


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```
            +  bin bin-number number
               +  lower-bound number
            +  delay-event direction keyword
               +  clear-threshold number
               +  exclude-lowest-bin number
               +  lowest-bin number
               +  raise-threshold number
            +  exclude-from-avg direction keyword
               +  bins string
         +  description string
         -  reference-count number
   +  session session-name string
      +  description string
      +  eth-cfm-single-ended-dmm-test
         +  admin-state keyword
         +  bin-group reference
         -  bin-group-binning keyword
         -  delay-events bin-metric keyword direction keyword
            -  last-tca-time string
            -  mi-suspect-status boolean
            -  oper-state keyword
            -  operational-value-count number
            -  tca-type keyword
         -  detected-tx-error keyword
         +  interval keyword
         -  measurement-result mi-ro-type keyword
            -  index index number
               -  elapsed-time number
               -  oper-state keyword
               -  start-time string
               -  statistics
                  -  bin-type bin-metric keyword
                     -  backward
                        -  average number
                        -  maximum number
                        -  minimum number
                     -  bin bin-number number
                        -  backward-measurements number
                        -  forward-measurements number
                        -  round-trip-measurements number
                     -  forward
                        -  average number
                        -  maximum number
                        -  minimum number
                     -  round-trip
                        -  average number
                        -  maximum number
                        -  minimum number
                  -  frames-received number
                  -  frames-transmitted number
                  -  nominal-frame-count (number | keyword)
               -  suspect-status boolean
            -  newest-index number
         -  oper-state keyword
         +  test-duration number
         +  test-id (number | keyword)
         -  test-id-in-use number
      +  forwarding-class reference
      +  measurement-interval mi-duration keyword
         +  boundary-type keyword
         +  clock-offset number
         +  intervals-stored number
         +  threshold-alerts
            +  delay-event keyword
```


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```
            +  loss-event keyword
         +  priority number
         +  profile keyword
         +  session-type keyword
         +  source
            +  association-id reference
            +  domain-id reference
            +  mep-id reference
         +  target (unicast-mac-address | number)
      -  test-count-total number
   +  ip
      +  delay
         +  bin-group bin-group-name string
            +  admin-state keyword
            +  bin-type bin-metric keyword
               +  bin bin-number number
                  +  lower-bound number
               +  delay-event direction keyword
                  +  clear-threshold number
                  +  exclude-lowest-bin number
                  +  lowest-bin number
                  +  raise-threshold number
               +  exclude-from-avg direction keyword
                  +  bins string
            +  description string
            -  reference-count number
      +  loss
         +  loss-events-template loss-events-template-name string
            +  avg-flr-event direction keyword
               +  clear-threshold decimal-number
               +  raise-threshold decimal-number
            +  chli-event direction keyword
               +  clear-threshold number
               +  raise-threshold number
            +  description string
            +  hli-event direction keyword
               +  clear-threshold number
               +  raise-threshold number
            -  reference-count number
            +  unavailability-event direction keyword
               +  clear-threshold number
               +  raise-threshold number
            +  undetermined-availability-event direction keyword
               +  clear-threshold number
               +  raise-threshold number
            +  undetermined-unavailability-event direction keyword
               +  clear-threshold number
               +  raise-threshold number
      +  session session-name string
         +  description string
         +  destination-ip (ipv4-address | ipv6-address)
         +  destination-udp-port number
         +  dscp (number | keyword)
         +  forwarding
            +  interface-ref
               +  interface reference
               +  subinterface reference
            +  next-hop (ipv4-address | ipv6-address)
         +  forwarding-class reference
         +  measurement-interval mi-duration keyword
            +  boundary-type keyword
            +  clock-offset number
            +  intervals-stored number
            +  threshold-alerts
```


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```
            +  delay-event keyword
            +  loss-event keyword
         +  network-instance reference
         +  profile keyword
         +  session-type keyword
         +  source-ip (ipv4-address | ipv6-address)
         +  source-udp-port number
         -  source-udp-port-in-use number
         +  stamp
            +  admin-state keyword
            +  delay
               +  bin-group reference
               -  bin-group-binning keyword
               -  delay-events bin-metric keyword direction keyword
                  -  last-tca-time string
                  -  mi-suspect-status boolean
                  -  oper-state keyword
                  -  operational-value-count number
                  -  tca-type keyword
               -  measurement-result mi-ro-type keyword
                  -  index index number
                     -  elapsed-time number
                     -  oper-state keyword
                     -  start-time string
                     -  statistics
                        -  bin-type bin-metric keyword
                           -  backward
                              -  average number
                              -  maximum number
                              -  minimum number
                           -  bin bin-number number
                              -  backward-measurements number
                              -  forward-measurements number
                              -  round-trip-measurements number
                           -  forward
                              -  average number
                              -  maximum number
                              -  minimum number
                           -  round-trip
                              -  average number
                              -  maximum number
                              -  minimum number
                        -  frames-received number
                        -  frames-transmitted number
                     -  suspect-status boolean
                  -  newest-index number
            -  detected-tx-error keyword
            +  interval keyword
            +  loss
               +  flr-threshold number
               +  hli-force-count boolean
               +  loss-event reference
               -  loss-events loss-metric keyword direction keyword
                  -  last-tca-time string
                  -  mi-suspect-status boolean
                  -  oper-state keyword
                  -  operational-value-count number
                  -  operational-value-percentage decimal-number
                  -  tca-type keyword
               -  measurement-result mi-ro-type keyword
                  -  index index number
                     -  elapsed-time number
                     -  oper-state keyword
                     -  start-time string
```


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```
                     -  statistics
                        -  backward
                           -  available number
                           -  average-frame-loss-ratio number
                           -  consecutive-high-loss-intervals number
                           -  high-loss-intervals number
                           -  in-loss number
                           -  maximum-frame-loss-ratio number
                           -  minimum-frame-loss-ratio number
                           -  unavailable number
                           -  undetermined-available number
                           -  undetermined-unavailable number
                        -  forward
                           -  available number
                           -  average-frame-loss-ratio number
                           -  consecutive-high-loss-intervals number
                           -  high-loss-intervals number
                           -  maximum-frame-loss-ratio number
                           -  minimum-frame-loss-ratio number
                           -  out-loss number
                           -  unavailable number
                           -  undetermined-available number
                           -  undetermined-unavailable number
                        -  frames-received number
                        -  frames-transmitted number
                     -  suspect-status boolean
                  -  newest-index number
               +  timing
                  +  chli-threshold number
                  +  consecutive-delta-t number
                  +  frames-per-delta-t number
            -  oper-state keyword
            +  pad-tlv-size number
            -  stamp-session-identifier number
            -  statistics
               -  stamp-malformed-flag-received number
               -  stamp-unrecognized-flag-received number
            +  test-duration number
            +  test-id (number | keyword)
            -  test-id-in-use number
         +  ttl number
      -  test-count-total number
+  service-activation-testhead
   +  acceptance-criteria-template ac-template-name string
      +  cir-threshold number
      +  delay-threshold number
      +  delay-var-threshold number
      +  description string
      +  loss-threshold decimal-number
      +  loss-threshold-policing decimal-number
      +  m-factor number
      +  pir-threshold number
   +  frame-size-template fs-template-name string
      +  size-a number
      +  size-b number
      +  size-c number
      +  size-d number
      +  size-e number
      +  size-f number
      +  size-g number
      +  size-h number
      +  size-u number
   +  service-test test-name string
      +  admin-state keyword
```


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```
      +  description string
      +  service-stream stream-id number
         +  acceptance-criteria-template reference
         +  admin-state keyword
         +  description string
         +  frame-mix
            +  frame-size-template reference
            +  sequence string
         +  frame-payload
            +  data-pattern
               +  repeat (hex-string | number)
            +  ethernet
               +  c-tag
                  +  discard-eligible boolean
                  +  dot1p number
               +  dst-mac string
               +  eth-cfm
                  +  source
                     +  association-id reference
                     +  domain-id reference
                     +  mep-id reference
               +  s-tag
                  +  discard-eligible boolean
                  +  dot1p number
         +  rate-cir number
         +  rate-pir number
         +  test-types
            +  cir boolean
            +  cir-pir boolean
            +  performance boolean
            +  policing boolean
      +  stream-run-type keyword
      +  test-duration
         +  cir
            +  minutes-seconds string
         +  cir-pir
            +  minutes-seconds string
         +  performance
            +  hours-minutes-seconds string
         +  policing
            +  minutes-seconds string
   -  statistics
      -  results
         -  service-test test-name string test-run number
            -  description string
            -  oper-state keyword
            -  service-stream stream-id number
               -  acceptance-criteria-template string
               -  cir-threshold number
               -  delay-threshold number
               -  delay-var-threshold number
               -  description string
               -  frame-mix
                  -  frame-size-template string
                  -  sequence string
               -  frame-payload
                  -  data-pattern
                     -  repeat (hex-string | number)
                  -  ethernet
                     -  c-tag
                        -  discard-eligible boolean
                        -  dot1p number
                     -  destination-mac-address string
                     -  eth-cfm
```


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```
                  - source
                     - association-id string
                     - domain-id string
                     - mep-id number
               - s-tag
                  - discard-eligible boolean
                  - dot1p number
            - interface string
            - interface-ref
               - interface reference
               - subinterface reference
            - loss-threshold (decimal-number | keyword)
            - loss-threshold-policing (decimal-number | keyword)
            - m-factor number
            - network-instance reference
            - oper-state keyword
            - pir-threshold number
            - rate-cir number
            - rate-pir number
            - size-a number
            - size-b number
            - size-c number
            - size-d number
            - size-e number
            - size-f number
            - size-g number
            - size-h number
            - size-u number
            - source-mac-address string
            - test-results test-type keyword
               - measured-delay-avg number
               - measured-delay-max number
               - measured-delay-min number
               - measured-delay-var-avg number
               - measured-delay-var-max number
               - measured-delay-var-min number
               - measured-frame-loss-ratio decimal-number
               - measured-frame-rx number
               - measured-frame-tx number
               - measured-throughput number
               - oper-state keyword
               - oper-status-delay keyword
               - oper-status-delay-var keyword
               - oper-status-frame-loss-ratio keyword
               - oper-status-throughput keyword
               - time-end (date-and-time | keyword)
               - time-left number
               - time-start (date-and-time | keyword)
            - test-types
               - cir boolean
               - cir-pir boolean
               - performance boolean
               - policing boolean
         - stream-run-type keyword
         - test-duration
            - cir
               - minutes-seconds string
            - cir-pir
               - minutes-seconds string
            - performance
               - hours-minutes-seconds string
            - policing
               - minutes-seconds string
         - time-end (date-and-time | keyword)
```


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```
            -  time-start (date-and-time | keyword)
      -  stored-results-total number
+  stamp
   +  session-reflector
      +  inactivity-timer number
      +  network-instance name reference
         +  admin-state keyword
         +  description string
         +  ip-prefix ip-prefix (ipv4-prefix | ipv6-prefix)
         -  oper-state keyword
         -  statistics
            -  malformed-packet number
            -  packet-discards-source-destination-equal number
            -  prefix-match-failure number
            -  session-reflector-udp-port-registration-failure number
            -  test-frames-received number
            -  test-frames-sent number
            -  test-sessions number
         -  test-session-statistics session-sender-ip (ipv4-address | ipv6-address) session-
sender-udp number session-reflector-ip (ipv4-address | ipv6-address) session-reflector-
udp number stamp-session-identifier number
            -  current-ref-wait number
            -  last-sequence-number-received number
            -  last-sequence-number-transmitted number
            -  malformed-tlv number
            -  test-frames-received number
            -  test-frames-sent number
         +  twamp-light-extensions
            +  lag-micro-sessions boolean
         +  udp-port number
      -  statistics
         -  packet-discards-on-reception number
         -  packet-discards-on-transmission number
         -  reflector-table-entries-full number
         -  reflectors-configured number
         -  reflectors-not-operational number
         -  reflectors-operational number
         -  session-reflector-not-found number
         -  test-frames-received number
         -  test-frames-sent number
         -  test-session-count number
+  twamp
   +  server
      +  network-instance name reference
         +  admin-state keyword
         +  client-connection prefix (ipv4-prefix | ipv6-prefix)
            +  maximum-connections number
            +  maximum-sessions number
            -  statistics
               -  control-connections-active number
               -  control-connections-rejected number
               -  test-packets-received number
               -  test-packets-transmitted number
               -  test-sessions-aborted number
               -  test-sessions-active number
               -  test-sessions-completed number
               -  test-sessions-rejected number
         -  control-connection client-ip (ipv4-address | ipv6-address) client-tcp-
port number server-ip (ipv4-address | ipv6-address) server-tcp-port number
            -  control-packet-dscp number
            -  selected-mode keyword
            -  state keyword
            -  statistics
               -  test-packets-received number
```


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```
               -  test-packets-transmitted number
               -  test-sessions-aborted number
               -  test-sessions-active number
               -  test-sessions-completed number
               -  test-sessions-rejected number
         +  control-packet-dscp (number | keyword)
         +  description string
         +  enforce-test-session-start-time boolean
         +  maximum-connections number
         +  maximum-sessions number
         -  modes keyword
         -  oper-state keyword
         +  servwait number
         -  session-reflector
            -  test-session sender-ip (ipv4-address | ipv6-address) sender-udp-
port number reflector-ip (ipv4-address | ipv6-address) reflector-udp-port number
               -  last-sequence-number-received number
               -  last-sequence-number-transmitted number
               -  parent-connection-client-ip (ipv4-address | ipv6-address)
               -  parent-connection-client-tcp-port number
               -  parent-connection-server-ip (ipv4-address | ipv6-address)
               -  parent-connection-server-tcp-port number
               -  statistics
                  -  test-packets-received number
                  -  test-packets-transmitted number
               -  test-packet-dscp number
               -  test-session-id string
         -  statistics
            -  control-connections-active number
            -  control-connections-rejected number
            -  test-packets-received number
            -  test-packets-transmitted number
            -  test-sessions-aborted number
            -  test-sessions-active number
            -  test-sessions-completed number
            -  test-sessions-rejected number
   -  statistics
      -  dropped-connection-states
         -  active number
         -  idle number
         -  process-started number
         -  process-stop number
         -  process-tw-session number
         -  setup-wait number
         -  started number
      -  dropped-connections
         -  connection-timeout number
         -  control-command-not-valid number
         -  incorrect-stop-session-count number
         -  invalid-invalid-hmac number
         -  maximum-global-limit-exceed number
         -  maximum-prefix-limit-exceed number
         -  memory-allocation-error number
         -  message-send-error number
         -  no-client-prefix-match number
         -  no-internal-resource number
         -  non-zero-sid-in-client-control-message number
         -  tcp-connection-closed number
         -  tcp-connection-fatal-error number
         -  tcp-unexpected-event number
         -  unspecified-mode number
         -  unsupported-mode number
      -  dropped-test-packet
         -  arrived-before-start-time number
```


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```
        - incorrect-packet-size number
        - incorrect-source-address number
        - invalid-error-estimate number
        - invalid-server-octets number
        - invalid-symmetric-mbz number
        - no-start-sessions number
        - reply-error number
    - rejected-session
        - bad-type-p number
        - client-source-ip-unreachable number
        - duplicate-session number
        - invalid-ip-address-version number
        - maximum-global-session-exceed number
        - maximum-prefix-session-exceed number
        - no-internal-resource number
        - non-local-ip-destination number
        - non-zero-mbz-value number
        - non-zero-session-sender-sid number
        - padding-too-big number
        - refwait-timeout number
        - timeout-too-large number
        - udp-port-in-use number
```


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7.1 oam Descriptions

oam

Description Enter the oam context

Enclosing container for OAM

Context oam

Tree oam

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

congestion-signaling

Description Enter the congestion-signaling context

Configuration for congestion signaling parameters.

Context oam congestion-signaling

Tree congestion-signaling

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable congestion signalling

Context oam congestion-signaling admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

compact

Description	Enter the compact context Configuration for 4-byte congestion signaling.
Context	oam congestion-signaling compact
Tree	compact
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

quantization-parameters

Description	Enter the quantization-parameters context
Context	oam congestion-signaling compact quantization-parameters
Tree	quantization-parameters
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description	Enter the available-bandwidth context
Context	oam congestion-signaling compact quantization-parameters available-bandwidth
Tree	available-bandwidth
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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algorithm *keyword*

Description Algorithm used for available bandwidth quantization

Context oam congestion-signaling compact quantization-parameters available-bandwidth algorithm *keyword*

Tree algorithm

Default default-bucket

Options

- default-bucket

  Default quantization algorithm is used to set bucket values

- manual-bucket

  Manually defined quantization buckets

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bucket index *number*

Description List of quantization buckets for available bandwidth

Context oam congestion-signaling compact quantization-parameters available-bandwidth bucket index *number*

Tree bucket

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

index *number*

Description Index of the quantization bucket

Context oam congestion-signaling compact quantization-parameters available-bandwidth bucket index *number*

Range 0 to 31

Configurable True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-value *number*

Description	Maximum value for the quantization bucket, in bytes per second. The configured value must not exceed 200,000,000,000 bytes per second.
Context	oam congestion-signaling compact quantization-parameters available-bandwidth bucket index *number* maximum-value *number*
Tree	maximum-value
Range	0 to 200000000000
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay

Description	Enter the delay context
Context	oam congestion-signaling compact quantization-parameters delay
Tree	delay
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *keyword*

Description	Algorithm used for delay quantization
Context	oam congestion-signaling compact quantization-parameters delay algorithm *keyword*
Tree	algorithm
Default	default-bucket
Options	• default-bucket Default quantization algorithm is used to set bucket values

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- manual-bucket

  Manually defined quantization buckets

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bucket index *number*

Description List of quantization buckets for delay

Context oam congestion-signaling compact quantization-parameters delay bucket index *number*

Tree bucket

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

index *number*

Description Index of the quantization bucket

Context oam congestion-signaling compact quantization-parameters delay bucket index *number*

Range 0 to 31

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-value *number*

Description Maximum value for the quantization bucket

Context oam congestion-signaling compact quantization-parameters delay bucket index *number* maximum-value *number*

Tree maximum-value

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Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative-available-bandwidth

Description	Enter the relative-available-bandwidth context
Context	oam congestion-signaling compact quantization-parameters relative-available-bandwidth
Tree	relative-available-bandwidth
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *keyword*

Description	Algorithm used for relative available bandwidth quantization
Context	oam congestion-signaling compact quantization-parameters relative-available-bandwidth algorithm *keyword*
Tree	algorithm
Default	default-bucket
Options	• default-bucket Default quantization algorithm is used to set bucket values. 32 buckets will be distributed across 0-100% range evenly
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bucket index *number*

Description	List of quantization buckets for available bandwidth
Context	oam congestion-signaling compact quantization-parameters relative-available-bandwidth bucket index *number*

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Tree	bucket
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

index *number*

Description	Index of the quantization bucket
Context	oam congestion-signaling compact quantization-parameters relative-available-bandwidth bucket index *number*
Range	0 to 31
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-value *number*

Description	Maximum value for the quantization bucket
Context	oam congestion-signaling compact quantization-parameters relative-available-bandwidth bucket index *number* maximum-value *number*
Tree	maximum-value
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *keyword*

Description	The interval for 4-byte congestion signaling in microseconds.
Context	oam congestion-signaling interval *keyword*
Tree	interval
Default	100
Units	us

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Options

- 1
  1 microsecond
- 100
  100 microseconds
- 1000
  1000 microseconds
- 10000
  10000 microseconds
- 100000
  100000 microseconds

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-locator *number*

Description indicates the node-wide locator to be used when updating CSig metrics

Context oam congestion-signaling node-locator *number*

Tree node-locator

Range 0 to 32767

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of congestion signalling on this device

Context oam congestion-signaling oper-state *keyword*

Tree oper-state

Options

- up
  Component or process is operational
- down
  Component or process is not operational

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- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Statistics Container for Congestion Signaling

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Context	oam congestion-signaling statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth-byte-counter *number*

Description	Number of bytes processed in congestion enabled packets.
Context	oam congestion-signaling statistics available-bandwidth-byte-counter *number*
Tree	available-bandwidth-byte-counter
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth-packet-counter *number*

Description	Number of congestion enabled packets processed.
Context	oam congestion-signaling statistics available-bandwidth-packet-counter *number*
Tree	available-bandwidth-packet-counter
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Execute the clear action Clear the CSIG Statistics, which clears the accumulated stats. It will cause the stats counters to reset to zero and then increment again as new packets with CSIG headers ingress the system. This is useful for testing and debugging, but should be used with caution in production environments.

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Context	oam congestion-signaling statistics clear
Tree	clear
Configurable	False
Note	This is an action command
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-byte-counter *number*

Description	Number of bytes processed in congestion enabled packets.
Context	oam congestion-signaling statistics delay-byte-counter *number*
Tree	delay-byte-counter
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-packet-counter *number*

Description	Number of congestion enabled packets processed.
Context	oam congestion-signaling statistics delay-packet-counter *number*
Tree	delay-packet-counter
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative-available-bandwidth-byte-counter *number*

Description	Number of bytes processed in congestion enabled packets.
Context	oam congestion-signaling statistics relative-available-bandwidth-byte-counter *number*
Tree	relative-available-bandwidth-byte-counter
Configurable	False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative-available-bandwidth-packet-counter *number*

Description Number of congestion enabled packets processed.

Context oam congestion-signaling statistics relative-available-bandwidth-packet-counter *number*

Tree relative-available-bandwidth-packet-counter

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-length *keyword*

Description Indicate CSig tag length expected

Context oam congestion-signaling tag-length *keyword*

Tree tag-length

Options

- compact

  4-byte tag
- wide

  8-byte tag

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tpid *number*

Description The TPID (Tag Protocol Identifier) for congestion signaling.

Context oam congestion-signaling tpid *number*

Tree tpid

Range 1536 to 65535

Configurable True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wide

Description	Enter the wide context Configuration for 8-byte congestion signaling.
Context	oam congestion-signaling wide
Tree	wide
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

quantization-parameters

Description	Enter the quantization-parameters context
Context	oam congestion-signaling wide quantization-parameters
Tree	quantization-parameters
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available-bandwidth

Description	Enter the available-bandwidth context
Context	oam congestion-signaling wide quantization-parameters available-bandwidth
Tree	available-bandwidth
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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algorithm *keyword*

Description Algorithm used for available bandwidth quantization

Context oam congestion-signaling wide quantization-parameters available-bandwidth algorithm *keyword*

Tree algorithm

Default default-bucket

Options

- default-bucket

  Default quantization algorithm is used to set bucket values

- manual-bucket

  Manually defined quantization

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bucket index *number*

Description List of quantization buckets for available bandwidth

Context oam congestion-signaling wide quantization-parameters available-bandwidth bucket index *number*

Tree bucket

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

index *number*

Description Index of the quantization bucket

Context oam congestion-signaling wide quantization-parameters available-bandwidth bucket index *number*

Range 0 to 31

Configurable True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-value *number*

Description	Maximum value for the quantization bucket, in bytes per second. The configured value must not exceed 200,000,000,000 bytes per second.
Context	oam congestion-signaling wide quantization-parameters available-bandwidth bucket index *number* maximum-value *number*
Tree	maximum-value
Range	0 to 200000000000
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay

Description	Enter the delay context
Context	oam congestion-signaling wide quantization-parameters delay
Tree	delay
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *keyword*

Description	Algorithm used for packet delay quantization
Context	oam congestion-signaling wide quantization-parameters delay algorithm *keyword*
Tree	algorithm
Default	default
Options	• default

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Default quantization algorithm is used to set bucket values A step value of 0 results in a maximum delay value of 1ms A larger step values can be specified if a larger delay range is required

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

step *number*

Description Step value used per quantized bucket

Context oam congestion-signaling wide quantization-parameters delay step *number*

Tree step

Range 0 to 63

Default 0

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative-available-bandwidth

Description Enter the relative-available-bandwidth context

Context oam congestion-signaling wide quantization-parameters relative-available-bandwidth

Tree relative-available-bandwidth

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm *keyword*

Description Algorithm used for relative available bandwidth quantization

Context oam congestion-signaling wide quantization-parameters relative-available-bandwidth algorithm *keyword*

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Tree algorithm

Default default

Options

- default

  Default quantization algorithm is used to set bucket values Each bucket will represent 1% within the 1-100% range

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

step *number*

Description Step value used per quantized bucket

Context oam congestion-signaling wide quantization-parameters relative-available-bandwidth step *number*

Tree step

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethcfm

Description OAM configuration and operational data for the management of Ethernet (ETH-CFM)

Context oam ethcfm

Tree ethcfm

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cfm-stack-table

Description Enter the cfm-stack-table context

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The cfm-stack-table provides an overview of CFM MEP state in a single view

Context oam ethcfm cfm-stack-table

Tree cfm-stack-table

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description Enter the interface context

Context oam ethcfm cfm-stack-table interface

Tree interface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface *string* level *number* direction *keyword*

Description List of interfaces that have CFM configured and the association CFM operational state

Context oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword*

Tree interface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Interface name

Context oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword*

String Length 3 to 22

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Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description The maintenance domain level

Context oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword*

Range 0 to 7

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction the MEP faces

If 'down' the MEP sends CFM PDUs away from the MAC Relay Entity. If 'up' the MEP sends CFM PDUs towards the MAC Relay Entity.

Context oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword*

Options

- down
- up

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description A uniquely assigned administrative name used to identify a maintenance association

Context oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword* association-id *string*

Tree association-id

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String Length	1 to 64
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

defects *keyword*

Description	Current received defects for the local MEP
Context	oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword* defects *keyword*
Tree	defects
Options	• none • rdi-ccm • mac-status • remote-ccm • error-ccm • xcon-ccm • ais • csf-ais • csf-rdi • csf-los • eth-ed
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *string*

Description	A uniquely assigned administrative name used to identify a maintenance domain
Context	oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword* domain-id *string*
Tree	domain-id
String Length	1 to 64

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	MAC address of the Management Point
Context	oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword* mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description	A uniquely assigned MEP identifier with a given maintenance association
Context	oam ethcfm cfm-stack-table interface interface interface *string* level *number* direction *keyword* mep-id *number*
Tree	mep-id
Range	1 to 8191
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface

Description	Enter the subinterface context
Context	oam ethcfm cfm-stack-table subinterface
Tree	subinterface
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

Description List of subinterfaces that have CFM configured and the association CFM operational state

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

Tree subinterface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description Subinterface name

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

String Length 5 to 27

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

primary-vlan *(number | keyword)*

Description Primary VLAN or 'none'

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

Range 1 to 4094

Options

- none

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description The maintenance domain level

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

Range 0 to 7

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction the MEP faces

If 'down' the MEP sends CFM PDUs away from the MAC Relay Entity. If 'up' the MEP sends CFM PDUs towards the MAC Relay Entity.

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword*

Options

- down
- up

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description A uniquely assigned administrative name used to identify a maintenance association

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* association-id *string*

Tree association-id

String Length 1 to 64

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

defects *keyword*

Description Current received defects for the local MEP

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* defects *keyword*

Tree defects

Options

- none
- rdi-ccm
- mac-status
- remote-ccm
- error-ccm
- xcon-ccm
- ais
- csf-ais
- csf-rdi
- csf-los
- eth-ed

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *string*

Description A uniquely assigned administrative name used to identify a maintenance domain

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* domain-id *string*

Tree domain-id

String Length 1 to 64

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description MAC address of the Management Point

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* mac-address *string*

Tree mac-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description A uniquely assigned MEP identifier with a given maintenance association

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* mep-id *number*

Tree mep-id

Range 1 to 8191

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface-type *string*

Description The type of subinterface bridged or routed

This is the value of srl_nokia-interfaces interface/subinterface/type

Context oam ethcfm cfm-stack-table subinterface subinterface subinterface *string* primary-vlan *(number | keyword)* level *number* direction *keyword* subinterface-type *string*

Tree subinterface-type

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain domain-id *string*

Description	Maintenance Domain list The Maintenance Domain includes all the configuration elements to define the individual domain behavior and scope of the CFM boundary. These are common elements that will be part of the related Maintenance Associations configured within the domain.
Context	oam ethcfm domain domain-id *string*
Tree	domain
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4000

domain-id *string*

Description	Unique Maintenance Domain identifier
Context	oam ethcfm domain domain-id *string*
String Length	1 to 64
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association association-id *string*

Description	Maintenance Association list
Context	oam ethcfm domain domain-id *string* association association-id *string*
Tree	association
Configurable	True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4000

association-id *string*

Description	Unique Maintenance Association identifier
Context	oam ethcfm domain domain-id *string* association association-id *string*
String Length	1 to 64
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-auto-discovered-meps mep-id *number*

Description	Add a list entry for association-auto-discovered-meps
Context	oam ethcfm domain domain-id *string* association association-id *string* association-auto-discovered-meps mep-id *number*
Tree	association-auto-discovered-meps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description	A list of the MEP IDs added to the MA by auto discovery An auto-discovered remote MEP ID can be added to the association-mep list though configuration. Once added to the association-mep list it is removed from the auto-discovered MEP list.
Context	oam ethcfm domain domain-id *string* association association-id *string* association-auto-discovered-meps mep-id *number*
Range	1 to 8191
Configurable	False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-format *keyword*

Description Format of the ma-name

Context oam ethcfm domain domain-id *string* association association-id *string* association-format *keyword*

Tree association-format

Options

- vlan-id

  Primary VLAN ID
- string

  Character string
- integer

  2 octet number
- vpn-id

  IETF RFC 2685 VPN ID
- icc-based

  13 character string

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-meps mep-id *number*

Description Add a list entry for association-meps

Context oam ethcfm domain domain-id *string* association association-id *string* association-meps mep-id *number*

Tree association-meps

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mep-id *number*

Description A list of the MEP IDs expected for the MA

This is a configured list of MEPs added to the MA.

Context oam ethcfm domain domain-id *string* association association-id *string* association-meps mep-id *number*

Range 1 to 8191

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ccm-hold-time

Description Enter the ccm-hold-time context

Context oam ethcfm domain domain-id *string* association association-id *string* ccm-hold-time

Tree ccm-hold-time

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-timeout *number*

Description Additional time before a MEP declares a fault for peer CCM timeout conditions

Each unit (centisecond) is the equivalent to 10ms, or one hundredth of a second in additional time added before the recognition of a peer time-out. This is applicable to MEPs with a CCM-interval 100ms and below. A value 0 means there is no additive delay

Context oam ethcfm domain domain-id *string* association association-id *string* ccm-hold-time delay-timeout *number*

Tree delay-timeout

Range 0 to 1000

Default 0

Units centiseconds

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Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ccm-interval *keyword*

Description The interval between CCM transmissions to be used by all MEPs in Maintenance Association

Context oam ethcfm domain domain-id *string* association association-id *string* ccm-interval *keyword*

Tree ccm-interval

Default 1s

Options

- 10ms
- 100ms
- 1s
- 10s

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ma-name

Description Enter the ma-name context

Context for association name

Context oam ethcfm domain domain-id *string* association association-id *string* ma-name

Tree ma-name

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icc-value *string*

Description ITU Carrier Code (ICC) string required when using association-format icc-based

Context oam ethcfm domain domain-id *string* association association-id *string* ma-name icc-value *string*

Tree icc-value

String Length 8 to 13

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description VPN ID required when using association-format vpn-id

When the VPN OUI is less than 6 hex characters the configured value will be prepended with the appropriate number of zeros. When the VPN INDEX is less than 8 hex characters the configured value will be prepended with the appropriate number of zeros.

Context oam ethcfm domain domain-id *string* association association-id *string* ma-name id *string*

Tree id

String Length 3 to 15

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name string required when using association-format string

Context oam ethcfm domain domain-id *string* association association-id *string* ma-name name *string*

Tree name

String Length 1 to 45

Configurable True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

number *number*

Description	Integer value required when using association-format integer
Context	oam ethcfm domain domain-id *string* association association-id *string* ma-name number *number*
Tree	number
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vid *number*

Description	VLAN ID number required when using association-format vlan-id
Context	oam ethcfm domain domain-id *string* association association-id *string* ma-name vid *number*
Tree	vid
Range	0 to 4094
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep mep-id *reference*

Description	The list of Maintenance association End Points in a specific Maintance Association
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference*
Tree	mep
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *reference*

Description The integer that uniquely identified the MEP in the Mainatenance Association

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference*

Reference oam ethcfm domain domain-id *string* association association-id *string* association-meps mep-id *number*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description The administrative state of the MEP

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ccm-ltm-priority *number*

Description The dot1p priority for CCMs and LTMs transmitted by the MEP

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* ccm-ltm-priority *number*

Tree ccm-ltm-priority

Range 0 to 7

Default 7

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Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

continuity-check

Description Enter the continuity-check context

This set of data definitions describes the handling of Ethernet Continuity Check (ETH-CCM)

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check

Tree continuity-check

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-defects *keyword*

Description A list of all active CCM defect conditions in priority order from lowest to highest

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check active-defects *keyword*

Tree active-defects

Options

- none
- rdi-ccm
- mac-status
- remote-ccm
- error-ccm
- xcon-ccm

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ccm-local-fault

Description Enter the ccm-local-fault context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check ccm-local-fault

Tree ccm-local-fault

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action *keyword*

Description Provides the ability to operationally affect the attachment where the down MEP is configured

A down MEP that experiences a defect condition matching the lowest-fault-priority defect can affect the operational state of the interface/subinterface the down MEP is configured on when the ccm-local-fault value is 'permit'. When the ccm-local-fault value is 'deny' there is no operational impact on the interface/subinterface. This leaf is only supported on down MEPs.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check ccm-local-fault action *keyword*

Tree action

Default deny

Options

- permit

  Action taken

- deny

  No action taken

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ccm-sequence-error-count *number*

Description The total number of out-of-sequence CCMs received from all remote MEPs

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Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check ccm-sequence-error-count *number*
Tree	ccm-sequence-error-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ccm-transmit *keyword*

Description	An indicator of whether the MEP is configured to transmit CCM packets This only controls the MEPs ability to transmit CCM packets. A MEP has no administrative configuration to stop the processing of received CCM packets. The receive state machine for CCM will execute and packet processing will occur regardless of the ccm-transmit admin-state.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check ccm-transmit *keyword*
Tree	ccm-transmit
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

highest-priority-defect-found *keyword*

Description	Value indicating the highest-priority defect present since the MEP FNG state machine was in RESET Multiple defect conditions may be present on a local MEP at any given time. This leaf records the highest priority defect since the MEP Fault Notification Generator (FNG) State Machine was last in the FNG_RESET state. This will be cleared when the when no defect flags are present.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check highest-priority-defect-found *keyword*
Tree	highest-priority-defect-found

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Options
- none
- rdi-ccm
- mac-status
- remote-ccm
- error-ccm
- xcon-ccm

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-cross-connect-ccm *binary*

Description Up to 1024 bytes of last-received CCM that triggered a cross-connect-ccm fault

The last-cross-connect-ccm will be cleared when the condition is no longer present.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check last-cross-connect-ccm *binary*

Tree last-cross-connect-ccm

String Length 1 to 1024

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-error-ccm *binary*

Description Up to 1024 bytes printed from of last-received CCM that triggered an invalid-ccm fault

The last-error-ccm will be cleared when the condition is no longer present.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check last-error-ccm *binary*

Tree last-error-ccm

String Length 1 to 1024

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lowest-fault-priority-defect *keyword*

Description The lowest priority defect that will generate a Fault Alarm

When the lowest fault priority defect is reached or exceeded, a fault alarm will be generated. This also drives the ../ccm-local-fault-action for down MEPs. When the lowest priority fault priority defect is reached the ../ccm-local-fault with a value 'permit' will operationally affect the interface or subinterface on which it is attached.

when ../../link-loss-forwarding admin-state 'enable' is configured this leaf must be set to a minimum priority of 'remote-error-xcon' to disable the priority based fault generation for levels that indicate access interface failure faults from a peer.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check lowest-fault-priority-defect *keyword*

Tree lowest-fault-priority-defect

Default mac-remote-error-xcon

Options

- all-def
- mac-remote-error-xcon
- remote-error-xcon
- error-xcon
- xcon
- no-xcon

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-interface-status *keyword*

Description Latest interface-status TLV value sent to the peer in the CCM packet

Indicates the interface status TLV information included in the most recent Connectivity Check Message (CCM) transmission from the local MEP. If the local MEP CCM transmissions are not enabled, or if no interface status TLV was included in the most recent transmission, then ccm-tx-if-status will return a value of is-no-interface-status-tlv (0).

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Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check sent-interface-status *keyword*

Tree sent-interface-status

Options

- no-status-tlv

  Indicates either that no CCM has been received or that no interface status TLV was present in the last CCM received

- up

  The interface is ready to pass packets

- down

  The interface cannot pass packets

- testing

  The interface is in some test mode

- unknown

  The interface status cannot be determined for some reason

- dormant

  The interface is not in a state to pass packets but is in a pending state, waiting for some external event

- not-present

  Some component of the interface is missing

- lower-layer-down

  The interface is down due to state of the lower layer interface condition

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-port-status *keyword*

Description Latest port-status TLV value sent to the peer in the CCM packet

Indicates the port status TLV information included in the most recent Connectivity Check Message (CCM) transmission from the local MEP. If the local MEP CCM transmissions are not enabled, or if no port status TLV was included in the most recent transmission, then ccm-tx-port-status will return a value of ps-no-port-state-tlv (0).

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check sent-port-status *keyword*

Tree sent-port-status

Options

- no-status-tlv

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Indicates either that no CCM has been received or that no port status TLV was present in the last CCM received

- blocked

  Ordinary data cannot pass freely through the port on which the remote MEP resides

- up

  Ordinary data can pass freely through the port on which the remote MEP resides

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-remote-defect-indicator *boolean*

Description Latest remote defect indicator (rdi) value sent to the peer in the CCM packet

Indicates if the Remote Defect Indication (RDI) bit was set to on in the most recent Connectivity Check Message (CCM) transmission from the local MEP.

If the local MEP CCM transmissions are not enabled, or if the RDI bit was not set in the most recent transmission, then ccm-tx-rdi will return a value of 'false (2)'.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* continuity-check sent-remote-defect-indicator *boolean*

Tree sent-remote-defect-indicator

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description A value indicating the direction which the MEP faces on the interface/subinterface

For all but MAC-VRF subinterfaces, the direction of the MEP must be 'down'. The MAC-VRF is a bridging entity and therefore supports the direction 'up'. The other entities are not bridging and therefore cannot support the direction 'up'.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* direction *keyword*

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Tree direction

Options
- down
- up

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description Enter the interface-ref context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* interface-ref

Tree interface-ref

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface, for example a port

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container.

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Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linktrace

Description	Enter the linktrace context Data definitions related to a linktrace test result
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace
Tree	linktrace
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

latest-run

Description	Enter the latest-run context
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run
Tree	latest-run
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-mac-address *string*

Description	Indicates the destination MAC address used for the last test

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When the destination is a remote-mepid the MAC address will be the resolved MAC address for the remote mepid

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run destination-mac-address *string*

Tree destination-mac-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description UTC date and time when a test ended

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description The dot1p priority to be used in the transmitted test packet

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run priority *number*

Tree priority

Range 0 to 7

Default 7

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-mep-id *number*

Description	Indicates the remote mepid when remote-mep-id was the target and not a MAC address
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run remote-mep-id *number*
Tree	remote-mep-id
Range	1 to 8191
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply reply-order *number*

Description	The list of LTRs associated with a specific Linktrace transaction
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number*
Tree	reply
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

reply-order *number*

Description	An index to distinguish among multiple LTRs with the same LTR transaction-id field value The reply-order are assigned sequentially from 1, in the order that the Linktrace Initiator received the LTR
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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chassis-id *(mac-address | string | binary)*

Description The value relating to the chassis-id-subtype

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* chassis-id *(mac-address | string | binary)*

Tree chassis-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-id-subtype *(number | keyword)*

Description Data definitions associated with the Sender ID TLV

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* chassis-id-subtype *(number | keyword)*

Tree chassis-id-subtype

Range 8 to 255

Options

- CHASSIS_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port or backplane component

- MAC_ADDRESS

  Chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001

- NETWORK_ADDRESS

  Chassis identifier based on a network address, associated with a particular chassis. The encoded address is composed of two fields. The first field is a single octet, representing the IANA AddressFamilyNumbers value for the specific address type, and the second field is the network address value

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- INTERFACE_NAME

  Chassis identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- LOCAL

  Chassis identifier based on a locally defined value

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-action *keyword*

Description An enumerated value indicating the value returned n the Egress Action field

This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* egress-action *keyword*

Tree egress-action

Options

- ok

  Indicates the target data frame would be passed through to the MAC Relay Entity

- down

  Indicates the Bridge Ports MAC Operational parameter is false

- blocked

  Indicates the target data frame would not be forwarded if received on this Port due to active topology enforcement

- vid

  Indicates the ingress port is not in the member set of the LTMs VID, and ingress filtering is enabled

  This means the target data frame would be filtered by ingress filtering.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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egress-mac *string*

Description The MAC address returned in the Egress MAC Address field

This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* egress-mac *string*

Tree egress-mac

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-port-id

Description Enter the egress-port-id context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* egress-port-id

Tree egress-port-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-id-subtype *keyword*

Description The Egress Port ID field and the corresponding port ID value

This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* egress-port-id port-id-subtype *keyword*

Tree port-id-subtype

Options

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

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Port identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port component

- MAC_ADDRESS

  Port identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with a port

- NETWORK_ADDRESS

  Port identifier based on a network address, associated with a particular port

- INTERFACE_NAME

  Port identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- AGENT_CIRCUIT_ID

  Port identifer based on the circuit id in the DHCP relay agent information option as defined in IETF RFC 3046

- LOCAL

  Port identifier based on a locally defined alphanumeric string

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(mac-address | string | binary)*

Description The value of the port id subtype

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* egress-port-id value *(mac-address | string | binary)*

Tree value

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarded *boolean*

Description A Boolean value stating whether an LTM was forwarded by the responding MP

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Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* forwarded *boolean*

Tree forwarded

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-action *keyword*

Description An enumerated value indicating the value returned in the Ingress Action field

This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ingress-action *keyword*

Tree ingress-action

Options

- ok

  Indicates the target data frame would be passed through to the MAC Relay Entity

- down

  Indicates the Bridge Ports MAC Operational parameter is false

- blocked

  Indicates the target data frame would not be forwarded if received on this Port due to active topology enforcement

- vid

  Indicates the ingress port is not in the member set of the LTMs VID, and ingress filtering is enabled

  This means the target data frame would be filtered by ingress filtering.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mac *string*

Description The MAC address returned in the Ingress MAC Address field

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This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ingress-mac *string*

Tree ingress-mac

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-port-id

Description Enter the ingress-port-id context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ingress-port-id

Tree ingress-port-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-id-subtype *keyword*

Description The Ingress Port ID field and the corresponding port ID value

This leaf is not present if no value is returned in the LTR.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ingress-port-id port-id-subtype *keyword*

Tree port-id-subtype

Options

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Port identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port component

- MAC_ADDRESS

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Port identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with a port

- NETWORK_ADDRESS

  Port identifier based on a network address, associated with a particular port

- INTERFACE_NAME

  Port identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- AGENT_CIRCUIT_ID

  Port identifer based on the circuit id in the DHCP relay agent information option as defined in IETF RFC 3046

- LOCAL

  Port identifier based on a locally defined alphanumeric string

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(mac-address | string | binary)*

Description The value of the port id subtype

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ingress-port-id value *(mac-address | string | binary)*

Tree value

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-egress-identifier

Description Enter the last-egress-identifier context

TLV included with in the LTM used to identify the instantiating or relaying management point

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Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* last-egress-identifier
Tree	last-egress-identifier
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

integer *number*

Description	An octet string the first two bytes of the egress-identifier
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* last-egress-identifier integer *number*
Tree	integer
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	The last six bytes of the egress identifier, the MAC address
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* last-egress-identifier mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ltr-relay *keyword*

Description	An enumerated value indicating the value returned in the Relay Action field

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Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* ltr-relay *keyword*

Tree ltr-relay

Options

- hit

  Indicates the LTM reached an MP whose MAC address matches the target MAC address

- filtering-database

  Indicates the Egress Port was determined by consulting the Filtering Database

- mip-ccm-database

  Indicates the Egress Port was determined by consulting the MIP CCM Database

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

management-address *string*

Description The address that can be used to access and manage the remote system

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* management-address *string*

Tree management-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

management-address-domain *string*

Description Identifies the type and format of the related management-address leaf

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* management-address-domain *string*

Tree management-address-domain

Configurable False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-egress-identifier

Description	Enter the next-egress-identifier context TLV included with in the LTM used to identify the instantiating or relaying management point
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* next-egress-identifier
Tree	next-egress-identifier
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

integer *number*

Description	An octet string the first two bytes of the egress-identifier
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* next-egress-identifier integer *number*
Tree	integer
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	The last six bytes of the egress identifier, the MAC address
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* next-egress-identifier mac-address *string*
Tree	mac-address
Configurable	False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-ttl *number*

Description	The integer Reply TTL field value returned in the LTR
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* reply-ttl *number*
Tree	reply-ttl
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

terminal-mep *boolean*

Description	The terminal MEP flag field was set in the LTR indicating the LTM reached a MEP boundary for the MA
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run reply reply-order *number* terminal-mep *boolean*
Tree	terminal-mep
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description	UTC date and time when the test started
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-status *keyword*

Description The status of the last test that was executed

A value of 'completed' means the test has run and ended without intervention, to completion. A value of 'terminated-incomplete' indicates the test started but conditions existed that caused if to terminate before the natural completion. A value 'in-progress' means the test is currently executing. A value of 'failed-to-start' meant a requirement to start the test was not met and the test had failed to start. When this value is set the statistics from a prior latest-run are deleted.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run test-status *keyword*

Tree test-status

Options

- completed
- terminated-incomplete
- in-progress
- failed-to-start

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transaction-id *number*

Description The sequence number included in the LTM packet

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run transaction-id *number*

Tree transaction-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transmit-ltm-flags *bits*

Description	The Flags field for LTMs transmitted by the MEP 'use-fdb-only' indicates only the network instance mac-table (or forwarding database) is to be used to forward the LTM to the next hop.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run transmit-ltm-flags *bits*
Tree	transmit-ltm-flags
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ttl *number*

Description	An initial value for the LTM time to live field
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace latest-run ttl *number*
Tree	ttl
Default	64
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-transaction-number *number*

Description	Next sequence number to be sent in a linktrace message
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace next-transaction-number *number*
Tree	next-transaction-number
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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status *keyword*

Description If an active linktrace test is executing from this MEP

Only a single Linktrace test can be active on a MEP at one time. When the status is 'active' the MEP has a linktrace session open. Another linktrace test form this MEP is not allowed. When the status is 'inactive' the MEP does not currently have a linktrace session open.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace status *keyword*

Tree status

Options

- active
- inactive

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unexpected-ltr-received *number*

Description The total number of LTR messages received no corresponding outstanding LTM request

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* linktrace unexpected-ltr-received *number*

Tree unexpected-ltr-received

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loopback

Description Enter the loopback context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback

Tree loopback

Configurable False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-latest-run

Description	Enter the multicast-latest-run context
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run
Tree	multicast-latest-run
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-length *number*

Description	An arbitrary amount of data included in the data tlv, if the data tlv is selected to be sent
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run data-length *number*
Tree	data-length
Range	64 to 9612
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description	UTC date and time when a test ended
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run end-time *string*
Tree	end-time
String Length	20 to 32
Configurable	False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *keyword*

Description The frequency of the LBM packets

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run interval *keyword*

Tree interval

Default 1s

Options

- 0s
- 10ms
- 20ms
- 50ms
- 100ms
- 200ms
- 300ms
- 400ms
- 500ms
- 600ms
- 700ms
- 800ms
- 900ms
- 1s
- 10s

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description The priority parameter to be used in the transmitted LBMs

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run priority *number*

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Tree	priority
Range	0 to 7
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-mac remote-mac-address *string*

Description	Enter the remote-mep-mac list instance
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run remote-mep-mac remote-mac-address *string*
Tree	remote-mep-mac
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mac-address *string*

Description	Specifies the MAC address of the remote MEP responding to the multicast loopback message
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run remote-mep-mac remote-mac-address *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-number sequence-number *number* received-index *number*

Description	Enter the sequence-number list instance
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run remote-mep-mac remote-mac-address *string* sequence-number sequence-number *number* received-index *number*

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Tree	sequence-number
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-number *number*

Description	Specifies the sequence number contained within the reply message
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run remote-mep-mac remote-mac-address *string* sequence-number sequence-number *number* received-index *number*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-index *number*

Description	Indicates the order in which the reply was received for the corresponding remote MAC address This is a locally assigned index that can be used to detect out of order responses.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run remote-mep-mac remote-mac-address *string* sequence-number sequence-number *number* received-index *number*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description	UTC date and time when the test started
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run start-time *string*

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Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-packets *number*

Description	Total number of valid multicast Loopback Replies received
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run statistics received-packets *number*
Tree	received-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-unexpected-sequence-number *number*

Description	The total number of Loopback Replies received and discarded due to unexpected sequence number

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Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run statistics received-unexpected-sequence-number *number*
Tree	received-unexpected-sequence-number
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Indicates the number of packets sent during the last multicast loopback test
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run statistics transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-status *keyword*

Description	The status of the last test that was executed A value of 'completed' means the test has run and ended without intervention, to completion. A value of 'terminated-incomplete' indicates the test started but conditions existed that caused if to terminate before the natural completion. A value 'in-progress' means the test is currently executing. A value of 'failed-to-start' meant a requirement to start the test was not met and the test had failed to start. When this value is set the statistics from a prior latest-run are deleted.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback multicast-latest-run test-status *keyword*
Tree	test-status
Options	• completed • terminated-incomplete • in-progress

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- failed-to-start

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-sequence-number *number*

Description Next sequence number to be sent in a linktrace message

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback next-sequence-number *number*

Tree next-sequence-number

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description If an active loopback test is executing from this MEP

Only a single loopback test can be active on a MEP at one time. When the status is 'active' the MEP has a loopback session open. Another loopback test form this MEP is not allowed. When the status is 'inactive' the MEP does not currently have a loopback session open.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback status *keyword*

Tree status

Options

- active
- inactive

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-latest-run

Description Enter the unicast-latest-run context

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Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run

Tree unicast-latest-run

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-length *number*

Description An arbitrary amount of data included in the data tlv, if the data tlv is selected to be sent

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run data-length *number*

Tree data-length

Range 64 to 9612

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-mac-address *string*

Description Indicates the destination MAC address used for the last test

When the destination is a remote-mepid the MAC address will be the resolved MAC address for the remote mepid

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run destination-mac-address *string*

Tree destination-mac-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description UTC date and time when a test ended

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Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run end-time *string*
Tree	end-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *keyword*

Description	The frequency of the LBM packets
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run interval *keyword*
Tree	interval
Default	1s
Options	• 0s • 10ms • 20ms • 50ms • 100ms • 200ms • 300ms • 400ms • 500ms • 600ms • 700ms • 800ms • 900ms • 1s • 10s
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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priority *number*

Description	The dot1p priority to be used in the transmitted test packet
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run priority *number*
Tree	priority
Range	0 to 7
Default	7
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-id *number*

Description	Indicates the remote mepid when remote-mep-id was the target and not a MAC address
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run remote-mep-id *number*
Tree	remote-mep-id
Range	1 to 8191
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-number *number*

Description	The initial LBM sequence number used in the first LBM packet
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run sequence-number *number*
Tree	sequence-number
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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start-time *string*

Description	UTC date and time when the test started
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-loss *decimal-number*

Description	Percentage of packet loss during testing
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics packet-loss *decimal-number*
Tree	packet-loss
Range	0.00 to 100.00
Units	percent
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received-bad-msdu *number*

Description	The total number of LBRs received whose mac_service_data_unit did not match that of the corresponding LBM, excluding OpCode
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics received-bad-msdu *number*
Tree	received-bad-msdu
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-in-order *number*

Description	Total number of valid, in-order Loopback Replies received
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics received-in-order *number*
Tree	received-in-order
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-out-of-order *number*

Description	The total number of valid, out-of-order Loopback Replies received
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics received-out-of-order *number*
Tree	received-out-of-order
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-unexpected-sequence-number *number*

Description The total number of Loopback Replies received and discarded due to unexpected sequence number

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics received-unexpected-sequence-number *number*

Tree received-unexpected-sequence-number

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sent-packets *number*

Description Indicates the number of packets sent during the last test

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run statistics sent-packets *number*

Tree sent-packets

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-status *keyword*

Description The status of the last test that was executed

A value of 'completed' means the test has run and ended without intervention, to completion. A value of 'terminated-incomplete' indicates the test started but conditions existed that caused if to terminate before the natural completion. A value 'in-progress' means the test is currently executing. A value of 'failed-to-start' meant a requirement to start the test was not met and the test had failed to start. When this value is set the statistics from a prior latest-run are deleted.

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Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* loopback unicast-latest-run test-status *keyword*

Tree test-status

Options
- completed
- terminated-incomplete
- in-progress
- failed-to-start

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address

Description Enter the mac-address context

Context allows for the MEP MAC configuration

Leaf /ethcfm/mac-allocation/mode determines which of the MAC configurations are applied.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address

Tree mac-address

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom-address *string*

Description Custom configured MAC address for the MEP

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address custom-address *string*

Tree custom-address

Configurable True

Platforms Supported on 7250 IXR-6e/10e/X1b/X3b

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custom-mac-pool

Description Enter the custom-mac-pool context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address custom-mac-pool

Tree custom-mac-pool

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Value used to select a MAC address from the custom-mac-pool

Index reference to the ordered list of MAC addresses in the pool. the same value should not be reused in the same network-instance on different subinterfaces.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address custom-mac-pool index *number*

Tree index

Range 1 to 64

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Enter the name context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address custom-mac-pool name *reference*

Tree name

Reference oam ethcfm mac-allocation custom-mac-pool name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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system-mac-pool-index *number*

Description Value used to select a MAC address from the system-mac-pool

Index reference to the ordered list of MAC addresses in the pool. the same value should not be reused in the same network-instance on different subinterfaces.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* mac-address system-mac-pool-index *number*

Tree system-mac-pool-index

Range 1 to 64

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

on-demand

Description Enter the on-demand context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* on-demand

Tree on-demand

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep remote-mep-id *number*

Description The list of remote MEPs in the MEP CCM database

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number*

Tree remote-mep

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-mep-id *number*

Description	The MEP ID of a remote MEP
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number*
Range	1 to 8191
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

auto-discovered *boolean*

Description	Indicates if the remote MEP has be auto-discovered 'true' indicates the remote MEP has been auto-discovered Display the method by which the remote MEP has been added to the remote-mep database. When 'false' the remote MEP has been added by manual configuration. When 'true' the remote-mep has been added using the auto discovery method.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* auto-discovered *boolean*
Tree	auto-discovered
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-id *(mac-address | string | binary)*

Description	The value relating to the chassis-id-subtype
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* chassis-id *(mac-address | string | binary)*
Tree	chassis-id
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-id-subtype *(number | keyword)*

Description Data definitions associated with the Sender ID TLV

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* chassis-id-subtype *(number | keyword)*

Tree chassis-id-subtype

Range 8 to 255

Options

- CHASSIS_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port or backplane component

- MAC_ADDRESS

  Chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001

- NETWORK_ADDRESS

  Chassis identifier based on a network address, associated with a particular chassis. The encoded address is composed of two fields. The first field is a single octet, representing the IANA AddressFamilyNumbers value for the specific address type, and the second field is the network address value

- INTERFACE_NAME

  Chassis identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- LOCAL

  Chassis identifier based on a locally defined value

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-status-tlv *keyword*

Description The enumerated value from the Interface Status TLV from the last CCM received from the remote MEP

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* interface-status-tlv *keyword*

Tree interface-status-tlv

Options

- no-status-tlv

  Indicates either that no CCM has been received or that no interface status TLV was present in the last CCM received

- up

  The interface is ready to pass packets

- down

  The interface cannot pass packets

- testing

  The interface is in some test mode

- unknown

  The interface status cannot be determined for some reason

- dormant

  The interface is not in a state to pass packets but is in a pending state, waiting for some external event

- not-present

  Some component of the interface is missing

- lower-layer-down

  The interface is down due to state of the lower layer interface condition

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description The MAC address of the remote MEP.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* mac-address *string*

Tree mac-address

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

management-address *string*

Description	The address that can be used to access and manage the remote system
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* management-address *string*
Tree	management-address
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

management-address-domain *string*

Description	Identifies the type and format of the related management-address leaf
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* management-address-domain *string*
Tree	management-address-domain
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-status-tlv *keyword*

Description	The enumerated value from the Port Status TLV from the last CCM received from the remote MEP
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* port-status-tlv *keyword*
Tree	port-status-tlv
Options	• no-status-tlv

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Indicates either that no CCM has been received or that no port status TLV was present in the last CCM received

- blocked

  Ordinary data cannot pass freely through the port on which the remote MEP resides

- up

  Ordinary data can pass freely through the port on which the remote MEP resides

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receiving-ccm *boolean*

Description Indicates whether CCM messages are being received

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* receiving-ccm *boolean*

Tree receiving-ccm

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-defect-indicator *boolean*

Description An indication of the state of the RDI bit in the last received CCM, 'true' for RDI set

The CCM message contains a flag to indicate if a MEP has detected a defect condition. When the RDI bit is set to 1 in the PDU that means the MEP is experiencing a defect condition and is including this in the transmitted CCM packets. When no defects are detected the RDI bit is set to 0 in the packet.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* remote-defect-indicator *boolean*

Tree remote-defect-indicator

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-failed-ok-time *number*

Description The time at which the Remote MEP state machine last entered either the RMEP_FAILED or RMEP_OK state

This type is based on the timeticks type defined in RFC 6991, but with 64-bit width. It represents the time, modulo 2^64, in hundredths of a second between two epochs.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* remote-mep-failed-ok-time *number*

Tree remote-mep-failed-ok-time

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-state *keyword*

Description An enumerated value indicating the operational state of the Remote MEP state machine

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference* remote-mep remote-mep-id *number* remote-mep-state *keyword*

Tree remote-mep-state

Options

- idle

  Indicates momentary state during reset

- start

  Indicates the timer has not expired since the state machine was reset, and no valid CCM has yet been received

- failed

  Indicates the timer has expired, both since the state machine was reset and since a valid CCM was received.

- ok

  Indicates the timer has not expired since a valid CCM was received.

Configurable False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance

Description	Enter the network-instance context
Context	oam ethcfm domain domain-id *string* association association-id *string* network-instance
Tree	network-instance
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	The network instance to which the information in this maintenance-association applies
Context	oam ethcfm domain domain-id *string* association association-id *string* network-instance name *reference*
Tree	name
Reference	network-instance name *string*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-auto-discovery

Description	Enter the remote-mep-auto-discovery context This set of data definitions describes the auto discovery behavior for remote MEPs
Context	oam ethcfm domain domain-id *string* association association-id *string* remote-mep-auto-discovery
Tree	remote-mep-auto-discovery
Configurable	True

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable the ability to auto-discover remote MEPs within the Maintenance Association

When the admins-state is 'enable' unknown remote MEP peers which have the same Maintenance Association information will be automatically added to the remote-mep database and these unknown peer MEPS will not raise the defect error-ccm. When the admin-state is 'disable' unknown remote MEP peers will not automatically be added to the remote-mep database. Unknown MEPs will cause the defect error-ccm to be raised.

If the admin-state value is changed from 'enable' to 'disable' all previously learned MEPs for the Maintenance Association will be removed from the remote-mep database and auto-discovery will be disabled.

Context oam ethcfm domain domain-id *string* association association-id *string* remote-mep-auto-discovery admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aging-timer *(number | keyword)*

Description Optional time in seconds the peer MEP remains in the remote-mep database after defect remote-ccm

Peer MEPs added to the remote-mep database do not age out unless the optional aging-timer is configured. The aging-timer value is the additional time the remote peer MEP remains in the database since the recognition of the defect remote-ccm (peer timeout where no packets have arrived from the peer in 3.5 times the ccm-interval). A value of 'none' disables aging.

Context oam ethcfm domain domain-id *string* association association-id *string* remote-mep-auto-discovery aging-timer *(number | keyword)*

Tree aging-timer

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Range	1 to 86400
Default	none
Units	seconds
Options	• none
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-format *keyword*

Description	Format of the md-name
Context	oam ethcfm domain domain-id *string* domain-format *keyword*
Tree	domain-format
Options	• none No Maintenance Domain Name • dns-like Domain Name based string • mac-address MAC address • string Character string
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description	Integer identifying the Maintenance Domain Level Higher numbers correspond Maintenance Domains with the greatest physical reach. Lower numbers correspond to Maintenance Domains with more limited physical reach. CFM packets with higher levels will flow transparently across domains of lower level values.
Context	oam ethcfm domain domain-id *string* level *number*
Tree	level

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Range	0 to 7
Default	0
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

md-name

Description	Enter the md-name context Context for domain name
Context	oam ethcfm domain domain-id *string* md-name
Tree	md-name
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns *string*

Description	DNS format sting required when using domain-format 'dns-like'
Context	oam ethcfm domain domain-id *string* md-name dns *string*
Tree	dns
String Length	1 to 43
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac *string*

Description	MAC address string required when using domain-format 'mac-address'
Context	oam ethcfm domain domain-id *string* md-name mac *string*
Tree	mac
Configurable	True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name string required when using domain-format 'string'
Context	oam ethcfm domain domain-id *string* md-name name *string*
Tree	name
String Length	1 to 43
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

two-octet-int *number*

Description	Two bytes value required when using domain-format 'mac-address'
Context	oam ethcfm domain domain-id *string* md-name two-octet-int *number*
Tree	two-octet-int
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*

Description	Enter the learned-remote-mac list instance
Context	oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*
Tree	learned-remote-mac
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-id *string*

Description A unique administratively assigned name used to identify a domain

Context oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*

String Length 1 to 64

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description A unique administratively assigned name used to identify an association

Context oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*

String Length 1 to 64

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-mep-id *number*

Description Specifies a local MEP identifier unique over a given maintenance association

Context oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*

Range 1 to 8191

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-id *number*

Description Specifies a remote MEP identifier unique over a given maintenance association

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Context	oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number*
Range	1 to 8191
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mac-address *string*

Description	The the source MAC address used by the remote MEP in the most recently received CCM PDU
Context	oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number* remote-mac-address *string*
Tree	remote-mac-address
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stale-flag *boolean*

Description	Indicates if the learned MAC entry for this remote MEP matches the entry found in the list on the local MEP The value 'false' indicates that the MAC address matches the entry found in both the lists for the same local and remote MEP values and therefore is not considered stale. The value 'true' indicates either the entries do not match, or there is no equivalent entry for the remote MEP in the list on the local MEP, so the learned remote MAC address in this table is considered stale.
Context	oam ethcfm learned-remote-mac domain-id *string* association-id *string* local-mep-id *number* remote-mep-id *number* stale-flag *boolean*
Tree	stale-flag
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac-allocation

Description	Enter the mac-allocation context
Context	oam ethcfm mac-allocation
Tree	mac-allocation
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom-mac-pool name *string*

Description	Enter the custom-mac-pool list instance
Context	oam ethcfm mac-allocation custom-mac-pool name *string*
Tree	custom-mac-pool
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *string*

Description	Custom MAC pool list
Context	oam ethcfm mac-allocation custom-mac-pool name *string*
String Length	1 to 247
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description	Number of contiguous MAC addresses in the custom-mac-pool Last byte of 'starting-mac' is incremented to create a list of unique MAC addresses for the pool.
Context	oam ethcfm mac-allocation custom-mac-pool name *string* count *number*
Tree	count

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Range	1 to 64
Default	64
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

highest-index-in-use *number*

Description	Highest index value configured against the pool Resizing the pool is allowed if ethcfm/mac-allocation/custom-mac-pool/count is greater than or equal to this value.
Context	oam ethcfm mac-allocation custom-mac-pool name *string* highest-index-in-use *number*
Tree	highest-index-in-use
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address index *number* mac-address *string*

Description	Add a list entry for mac-address
Context	oam ethcfm mac-allocation custom-mac-pool name *string* mac-address index *number* mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index associated with the unicast MAC address
Context	oam ethcfm mac-allocation custom-mac-pool name *string* mac-address index *number* mac-address *string*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description MAC address associated with the index

Context oam ethcfm mac-allocation custom-mac-pool name *string* mac-address index *number* mac-address *string*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

starting-mac *string*

Description First unicast MAC address of the pool

Combination of the 'starting-mac' and the 'count' cannot cause a change to the first five bytes of the MAC address.

Context oam ethcfm mac-allocation custom-mac-pool name *string* starting-mac *string*

Tree starting-mac

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description Enter the interface list instance

Context oam ethcfm mac-allocation interface name *string*

Tree interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Interface list

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Allocated MAC addressing from interface perspective

Context oam ethcfm mac-allocation interface name *string*

String Length 3 to 22

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex *number*

Description Forwarding complex on the linecard hosting the interface

Context oam ethcfm mac-allocation interface name *string* forwarding-complex *number*

Tree forwarding-complex

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linecard *number*

Description Linecard hosting the interface

Context oam ethcfm mac-allocation interface name *string* linecard *number*

Tree linecard

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep domain-id *string* association-id *string* mep-id *number*

Description MEP List

Context oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number*

Tree mep

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-id *string*

Description	Unique administratively assigned name used to identify a domain
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number*
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description	Unique administratively assigned name used to identify an association
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number*
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description	MEP identifier unique over a given maintenance association
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number*
Range	1 to 8191
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom-mac-pool-name *string*

Description	Name of the custom-mac-pool
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number* custom-mac-pool-name *string*
Tree	custom-mac-pool-name

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String Length	1 to 247
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index associated with the MAC address Only displayed for mac-allocated-type of 'custom-mac-pool' or 'system-mac-pool'.
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number* index *number*
Tree	index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	MAC address assigned to the MP
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number* mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-allocated-type *keyword*

Description	Method by which the active MAC address was selected
Context	oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number* mac-allocated-type *keyword*
Tree	mac-allocated-type
Options	• port Maintenance Point (MP) MAC allocated using hardware MAC address of the Ethernet port

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- custom-mac-pool

  Maintenance Point (MP) MAC allocated using custom-mac-pool
- system-mac-pool

  Maintenance Point (MP) MAC allocated using system-mac-pool
- custom-address

  Maintenance Point (MP) allocated using custom MAC address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description Subinterface name

MP created on subinterface will include the subinterface information. MP created on interface will not include this leaf.

Context oam ethcfm mac-allocation interface name *string* mep domain-id *string* association-id *string* mep-id *number* subinterface *string*

Tree subinterface

String Length 5 to 27

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description ETHCFM MP MAC address allocation method

Selection MAC address configuration under the MP is controlled by preference unique to each mode.

Context oam ethcfm mac-allocation mode *keyword*

Tree mode

Options

- port

  Maintenance Point (MP) MAC allocation uses hardware MAC address of the Ethernet port

  Other MAC address configuration methods under the MP are ignored
- mac-pool

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Maintenance Point (MP) MAC allocation prefers the custom or system mac pools

Preference order of configured options under the MP custom-mac-pool, system-mac-pool

- any

  Maintenance Point (MP) allocation may use any MAC allocation method

  Preference order of configured options under the MP custom-address, custom-mac-pool, system-mac-pool, port

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *string*

Description Enter the network-instance list instance

Context oam ethcfm mac-allocation network-instance name *string*

Tree network-instance

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Network instance list

Allocated MAC addressing from network instance perspective

Context oam ethcfm mac-allocation network-instance name *string*

String Length 1 to 247

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface name *string*

Description Enter the subinterface list instance

Context oam ethcfm mac-allocation network-instance name *string* subinterface name *string*

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Tree	subinterface
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Subinterface list
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string*
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep domain-id *string* association-id *string* mep-id *number*

Description	MEP List
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number*
Tree	mep
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *string*

Description	Unique administratively assigned name used to identify a domain
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number*
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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association-id *string*

Description	Unique administratively assigned name used to identify an association
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number*
String Length	1 to 64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description	MEP identifier unique over a given maintenance association
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number*
Range	1 to 8191
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom-mac-pool-name *string*

Description	Name of the custom-mac-pool
Context	oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number* custom-mac-pool-name *string*
Tree	custom-mac-pool-name
String Length	1 to 247
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-mac *boolean*

Description	Whether a MAC address is being reused in the same network instance

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Value 'true' duplicate MAC addresses present in the network instance. Value 'false' all MAC addresses in the network instance are unique.

Context oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number* duplicate-mac *boolean*

Tree duplicate-mac

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index associated with the MAC address

Only displayed for mac-allocated-type of 'custom-mac-pool' or 'system-mac-pool'.

Context oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number* index *number*

Tree index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description MAC address

Context oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number* mac-address *string*

Tree mac-address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-allocated-type *keyword*

Description Method by which the active MAC address was selected

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Context oam ethcfm mac-allocation network-instance name *string* subinterface name *string* mep domain-id *string* association-id *string* mep-id *number* mac-allocated-type *keyword*

Tree mac-allocated-type

Options

- port

  Maintenance Point (MP) MAC allocated using hardware MAC address of the Ethernet port

- custom-mac-pool

  Maintenance Point (MP) MAC allocated using custom-mac-pool

- system-mac-pool

  Maintenance Point (MP) MAC allocated using system-mac-pool

- custom-address

  Maintenance Point (MP) allocated using custom MAC address

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-mac-pool

Description Enter the system-mac-pool context

Context oam ethcfm mac-allocation system-mac-pool

Tree system-mac-pool

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Number of contiguous MAC addresses in the system pool

Last byte of 'starting-mac' is incremented to create a list of unique MAC addresses for the pool.

Context oam ethcfm mac-allocation system-mac-pool count *number*

Tree count

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address index *number* mac-address *string*

Description	Add a list entry for mac-address
Context	oam ethcfm mac-allocation system-mac-pool mac-address index *number* mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index associated with the unicast MAC address
Context	oam ethcfm mac-allocation system-mac-pool mac-address index *number* mac-address *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	MAC address associated with the index
Context	oam ethcfm mac-allocation system-mac-pool mac-address index *number* mac-address *string*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

starting-mac *string*

Description	First unicast MAC address of the pool Pool created by the system for the explicit use of ETHCFM MPs.

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Context	oam ethcfm mac-allocation system-mac-pool starting-mac *string*
Tree	starting-mac
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam ethcfm statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-discards *number*

Description	Indicates the number of discarded ETH-CFM packets received on the node A packet may be discarded for several reasons including, but not limited to, malformed PDU, invalid TLVs, MEP admin down, etc.
Context	oam ethcfm statistics error-discards *number*
Tree	error-discards
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-congestion-drops *number*

Description	Indicates the number of dropped ETH-CFM packets on the node in the receive direction A packet drop can be caused be resource contention.
Context	oam ethcfm statistics receive-congestion-drops *number*

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Tree	receive-congestion-drops
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-count *number*

Description	Indicates the number of ETH-CFM packets received on the node
Context	oam ethcfm statistics receive-count *number*
Tree	receive-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmit-congestion-drops *number*

Description	Indicates the number of dropped ETH-CFM packets on the node in the transmit direction A packet drop can be caused be resource contention.
Context	oam ethcfm statistics transmit-congestion-drops *number*
Tree	transmit-congestion-drops
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmit-count *number*

Description	Indicates the number of ETH-CFM packets transmitted from the node
Context	oam ethcfm statistics transmit-count *number*
Tree	transmit-count

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Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ippm

Description	Context for IP Performance Measurement shared elements
Context	oam ippm
Tree	ippm
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-udp-port-pools

Description	Enter the source-udp-port-pools context Context for source UDP port allocation to IPPM application
Context	oam ippm source-udp-port-pools
Tree	source-udp-port-pools
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port port-number *number*

Description	List of UDP ports
Context	oam ippm source-udp-port-pools port port-number *number*
Tree	port
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-number *number*

Description UDP port number

Context oam ippm source-udp-port-pools port port-number *number*

Range 64374 to 64383

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application-assignment *keyword*

Description IP Performance Measurement application assigned to the UDP port

Context oam ippm source-udp-port-pools port port-number *number* application-assignment *keyword*

Tree application-assignment

Default unassigned

Options

- oam-pm-ip

  Performance monitoring IP
- link-measurement

  Link Measurement
- unassigned

  No IPPM application assigned

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use *boolean*

Description Referenced by an application test

When false no test is referencing the UDP port. When true a test is referencing the UDP port. The application assignment can only be changed when the value is false.

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Context	oam ippm source-udp-port-pools port port-number *number* in-use *boolean*
Tree	in-use
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-measurement

Description	Context for Link Measurement
Context	oam link-measurement
Tree	link-measurement
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description	List of interface names
Context	oam link-measurement interface name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The interface name This can be configured in one of two forms. Fully qualified reference to an interface subinterface, example ethernet-1/1.1, or symbolic alias, example interface-1. When the fully qualified name is specified the 'interface-ref' should not be configured. When the symbolic alias is specified the 'interface-ref' must be configured.
Context	oam link-measurement interface name *string*

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String Length	1 to 255
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-newest-index *number*

Description	Index of the newest aggregate sample window for this subinterface
Context	oam link-measurement interface name *string* aggregate-newest-index *number*
Tree	aggregate-newest-index
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip-auto-assigned *boolean*

Description	Destination IP address auto assigned
Context	oam link-measurement interface name *string* destination-ip-auto-assigned *boolean*
Tree	destination-ip-auto-assigned
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detectable-transmit-error *keyword*

Description	Detectable error interrupting Link Measurement tests Packet transmission is prevented for the following detectable transmit errors; subinterface-down, invalid-dest-ip, invalid-subinterface-type, same-source-ip-destination-ip.
Context	oam link-measurement interface name *string* detectable-transmit-error *keyword*
Tree	detectable-transmit-error

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Options

- none

  No errors found
- subinterface-down

  Subinterface is down
- unexpected-error

  Resource or system error
- source-ip-not-local

  Source IP is not found in the default network-instance
- invalid-dest-ip

  Unresolved or invalid destination IP address
- subinterface-type-not-supported

  Subinterace not type routed
- same-source-ip-destination-ip

  Same source and destination IP address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-measurement

Description Context for Dynamic Measurement of IP interface

Context oam link-measurement interface name *string* dynamic-measurement

Tree dynamic-measurement

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-measurement

Description Enter the link-measurement context

Context to configure link-measurement interface parameters

Context oam link-measurement interface name *string* dynamic-measurement link-measurement

Tree link-measurement

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Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-micro-sessions *boolean*

Description	Instantiate link measurement micro sessions for IP subinterfaces with LAG members
Context	oam link-measurement interface name *string* dynamic-measurement link-measurement lag-micro-sessions *boolean*
Tree	lag-micro-sessions
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-measurement-template *reference*

Description	The link measurement template assigned to the subinterface
Context	oam link-measurement interface name *string* dynamic-measurement link-measurement link-measurement-template *reference*
Tree	link-measurement-template
Reference	oam link-measurement measurement-template template-name *string*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol

Description	Enter the protocol context Context for IP protocol used by the measurement template
Context	oam link-measurement interface name *string* dynamic-measurement protocol
Tree	protocol
Configurable	True

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Context for ipv4 address configuration

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of STAMP IPv4 packets

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv4 admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *string*

Description Unicast IPv4 destination address

When not specified and the primary local IP address has a prefix length of 30 or 31 the destination address will be the compliment. Otherwise, must be specified.

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Context oam link-measurement interface name *string* dynamic-measurement protocol ipv4 destination-ip *string*

Tree destination-ip

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *string*

Description Unicast IPv4 source address

When not specified the primary local interface address will be used.

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv4 source-ip *string*

Tree source-ip

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

Context for ipv6 address

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of STAMP IPv6 packets

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Context oam link-measurement interface name *string* dynamic-measurement protocol ipv6 admin-state *keyword*

Tree admin-state

Default disable

Options
- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *string*

Description Global unicast or link-local unicast IPv6 destination address

When not specified the IPv6 destination discovery is an option for the measurement template.

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv6 destination-ip *string*

Tree destination-ip

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *string*

Description Global unicast or link-local unicast IPv6 source address

When not specified the link-local interface address will be used.

Context oam link-measurement interface name *string* dynamic-measurement protocol ipv6 source-ip *string*

Tree source-ip

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-use-destination-udp-port *number*

Description	Destination UDP port in use
Context	oam link-measurement interface name *string* in-use-destination-udp-port *number*
Tree	in-use-destination-udp-port
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use-source-udp-port *number*

Description	Source UDP port in use
Context	oam link-measurement interface name *string* in-use-source-udp-port *number*
Tree	in-use-source-udp-port
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description	Ethernet interface displayed when IP interface link measurement is not configured on LAG and lag-micro-sessions is false
Context	oam link-measurement interface name *string* interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description	Enter the interface-ref context

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Reference to a subinterface

If interface-ref is configured the ../interface/name will be considered as an alias regardless of its form.

Context oam link-measurement interface name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface

Context oam link-measurement interface name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container.

Context oam link-measurement interface name *string* interface-ref subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number*

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag *reference*

Description	LAG interface displayed when IP interface link measurement is configured on LAG
Context	oam link-measurement interface name *string* lag *reference*
Tree	lag
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-micro-sessions

Description	Enter the lag-micro-sessions context Entry for LAG Micro Session statistics
Context	oam link-measurement interface name *string* lag-micro-sessions
Tree	lag-micro-sessions
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag name *reference*

Description	List LAG interface displayed when lag-micro-sessions true
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference*
Tree	lag

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	LAG interface name the IP interface is configured over
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference*
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member name *reference*

Description	List Ethernet interface
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference*
Tree	member
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	Ethernet interface name associated with the LAG interface
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference*
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-newest-index *number*

Description Index of the newest aggregate sample window for this subinterface

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* aggregate-newest-index *number*

Tree aggregate-newest-index

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detectable-transmit-error *keyword*

Description Detectable error interrupting Link Measurement tests on the Ethernet interface

Packet transmission is prevented for the following detectable transmit errors; interface-down

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* detectable-transmit-error *keyword*

Tree detectable-transmit-error

Options

- none

  No errors found
- unexpected-error

  Resource or system error
- interface-down

  Ethernet interface is down

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-discards

Description Enter the frame-discards context

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Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* frame-discards
Tree	frame-discards
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector-micro-session-id-zero *number*

Description	Count of packets reflector micro-session identifier all zeros
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* frame-discards reflector-micro-session-id-zero *number*
Tree	reflector-micro-session-id-zero
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sender-micro-session-id-mismatch *number*

Description	Count of packets sender micro-session identifier does not match intended value
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* frame-discards sender-micro-session-id-mismatch *number*
Tree	sender-micro-session-id-mismatch
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sender-micro-session-id-zero *number*

Description	Count of packets sender micro-session identifier all zeros

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Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* frame-discards sender-micro-session-id-zero *number*

Tree sender-micro-session-id-zero

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of link measurement on this member

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state

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- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector-micro-session-id *number*

Description Reflector micro-session identifier received from the session-reflector

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* reflector-micro-session-id *number*

Tree reflector-micro-session-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector-micro-session-id-change-count *number*

Description Count of reflector micro-session identifier changes

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* reflector-micro-session-id-change-count *number*

Tree reflector-micro-session-id-change-count

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sample-newest-index *number*

Description	Index of the newest sample window for this subinterface
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* sample-newest-index *number*
Tree	sample-newest-index
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sender-micro-session-id *number*

Description	Automatically generated sender micro-session identifier
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* sender-micro-session-id *number*
Tree	sender-micro-session-id
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-session-identifier *number*

Description	Automatically generated Session Sender ID (SSID) assigned to the session
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* stamp-session-identifier *number*
Tree	stamp-session-identifier
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context

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Aggregate sample window information and sample window statistics when lag-micro-sessions ture

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-sample-window

Description Enter the aggregate-sample-window context

Context for aggregate sample window statistics

Rolling buffer maintains the last 20 results.

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window

Tree aggregate-sample-window

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description The index list instance

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number*

Tree index

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description Index used to differentiate aggregate sample windows on the same subinterface

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Average delay measurement reported to the aggregate sample window

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* average *number*

Tree average

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-timestamp-utc *string*

Description Time (UTC) at which this aggregate sample window closed

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* end-timestamp-utc *string*

Tree end-timestamp-utc

String Length 20 to 32

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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integrity *boolean*

Description Percentage of results meets integrity criteria

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* integrity *boolean*

Tree integrity

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description Maximum delay measurement reported to the aggregate sample window

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* maximum *number*

Tree maximum

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description Minimum delay measurement reported to the aggregate sample window

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* minimum *number*

Tree minimum

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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result *number*

Description Delay being evaluated for reporting

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* result *number*

Tree result

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-window-count *number*

Description Number of sample windows completed meeting integrity requirement

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* sample-window-count *number*

Tree sample-window-count

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-state *keyword*

Description Enter the window-state context

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics aggregate-sample-window index index *number* window-state *keyword*

Tree window-state

Options

- completed

  Window ran to completion
- in-progress

  Window currently active

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- sw-reported

  Sample window threshold triggered report, aggregated sample window restarted

- asw-reported

  Aggregate sample window threshold triggered report

- terminated

  Window terminated prior to completion

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-window

Description Enter the sample-window context

Context for sample window statistics

Rolling buffer maintains the last 50 results.

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window

Tree sample-window

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description Index list instance

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number*

Tree index

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description Index used to differentiate sample windows on the same subinterface

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Average delay computed

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* average *number*

Tree average

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-packet-count *number*

Description Count of duplicate packets that have arrived during this sample window

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* duplicate-packet-count *number*

Tree duplicate-packet-count

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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end-timestamp-utc *string*

Description	Time (UTC) at which this sample window closed
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* end-timestamp-utc *string*
Tree	end-timestamp-utc
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-count *number*

Description	Number of erroneous delay measurements that occurred in this sample window
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* error-count *number*
Tree	error-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

integrity *boolean*

Description	Percentage of results meets integrity criteria
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* integrity *boolean*
Tree	integrity
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description Maximum delay computed

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* maximum *number*

Tree maximum

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description Minimum delay computed

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* minimum *number*

Tree minimum

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-packets *number*

Description Number of STAMP packets received from the session-reflector

Context oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* received-packets *number*

Tree received-packets

Default 0

Configurable False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

result *number*

Description	Delay evaluated for reporting
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* result *number*
Tree	result
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-malformed-flag-count *number*

Description	Count of packets in this sample window with the M (Malformed) bit set
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* stamp-malformed-flag-count *number*
Tree	stamp-malformed-flag-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-unrecognized-flag-count *number*

Description	Number of packets in this sample window with the U (Unrecognized) bit set
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* stamp-unrecognized-flag-count *number*
Tree	stamp-unrecognized-flag-count

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Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of STAMP packets transmitted to the session-reflector
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-state *keyword*

Description	Enter the window-state context
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* window-state *keyword*
Tree	window-state
Options	• completed Window ran to completion • in-progress Window currently active • sw-reported Sample window threshold triggered report, aggregated sample window restarted • terminated Window terminated prior to completion
Configurable	False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

zero-or-negative-delay-count *number*

Description	Count of packets that have a zero or negative computed delay during this sample window
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* statistics sample-window index index *number* zero-or-negative-delay-count *number*
Tree	zero-or-negative-delay-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

waiting-for-resource *keyword*

Description	The resource unavailable preventing the instantiation of the session
Context	oam link-measurement interface name *string* lag-micro-sessions lag name *reference* member name *reference* waiting-for-resource *keyword*
Tree	waiting-for-resource
Options	• transmit-resource No transmit resources available
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-micro-sessions-count *number*

Description	Number of session-sender test sessions displayed when IP interface is configured on LAG and lag-micro-sessions is true
Context	oam link-measurement interface name *string* lag-micro-sessions-count *number*

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Tree	lag-micro-sessions-count
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reported-dynamic-delay *(number | keyword)*

Description	Last delay measurement reported
Context	oam link-measurement interface name *string* last-reported-dynamic-delay *(number | keyword)*
Tree	last-reported-dynamic-delay
Range	0 to 2147483647
Units	microseconds
Options	• none No value has been reported
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-source *string*

Description	IP Interface name or Ethernet interface name which triggered the report IP interface name will be used when lag-micro-sessions is false. Ethernet interface name will be used when lag-micro-sessions is true.
Context	oam link-measurement interface name *string* measurement-source *string*
Tree	measurement-source
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of link measurement on this interface

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Context oam link-measurement interface name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-destination-address *(ipv4-address | ipv6-address)*

Description Destination IP address used by STAMP test packets

Context oam link-measurement interface name *string* operational-destination-address *(ipv4-address | ipv6-address)*

Tree operational-destination-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-failure *keyword*

Description Reason(s) why this interface's link measurement is operationally disabled

Context oam link-measurement interface name *string* operational-failure *keyword*

Tree operational-failure

Options

- no-protocol
- template-admin-down
- udp-port-unavailable
- internal-error
- subinterface-not-found-in-network-instance
- network-instance-type-not-supported
- subinterface-type-not-supported
- no-template
- interface-not-lag

  lag-micro-sessions configured against non-lag interface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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operational-source-address *(ipv4-address | ipv6-address)*

Description	Source IP address used by STAMP test packets
Context	oam link-measurement interface name *string* operational-source-address *(ipv4-address | ipv6-address)*
Tree	operational-source-address
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

report-timestamp *string*

Description	Time a threshold event was last reported to the routing engine When ./last-reported-dynamic-delay > 0, report-timestamp holds the time at which ./last-reported-dynamic-delay was reported to the routing engine. When ./last-reported-dynamic-delay = 0, report-timestamp holds the time at which ./last-reported-dynamic-delay was 'cleared' (because aging timer expired). When ./last-reported-dynamic-delay = 'none', report-timestamp holds '1970-Jan-01 00:00:00.0' UTC as a placeholder representing a delay has not yet been reported to the routing engine.
Context	oam link-measurement interface name *string* report-timestamp *string*
Tree	report-timestamp
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

report-triggered-by *keyword*

Description	Triggering event for the report
Context	oam link-measurement interface name *string* report-triggered-by *keyword*
Tree	report-triggered-by
Options	• none • sample-threshold-absolute

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- sample-threshold-relative
- aggregate-threshold-absolute
- aggregate-threshold-relative
- expired
- reporting-disabled

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reporting *boolean*

Description IP interface reporting to the routing engine

Context oam link-measurement interface name *string* reporting *boolean*

Tree reporting

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-newest-index *number*

Description Index of the newest sample window for this subinterface

Context oam link-measurement interface name *string* sample-newest-index *number*

Tree sample-newest-index

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip-auto-assigned *boolean*

Description Source IP address auto assigned

Context oam link-measurement interface name *string* source-ip-auto-assigned *boolean*

Tree source-ip-auto-assigned

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-session-identifier *number*

Description	Automatically generated Session Sender ID (SSID) assigned to the session
Context	oam link-measurement interface name *string* stamp-session-identifier *number*
Tree	stamp-session-identifier
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Aggregate sample window information and sample window statistics when lag-micro-sessions false
Context	oam link-measurement interface name *string* statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-sample-window

Description	Enter the aggregate-sample-window context Context for aggregate sample window statistics Rolling buffer maintains the last 20 results.
Context	oam link-measurement interface name *string* statistics aggregate-sample-window
Tree	aggregate-sample-window

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description	The index list instance
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number*
Tree	index
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index used to differentiate aggregate sample windows on the same subinterface
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average delay measurement reported to the aggregate sample window
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* average *number*
Tree	average
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-timestamp-utc *string*

Description	Time (UTC) at which this aggregate sample window closed
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* end-timestamp-utc *string*
Tree	end-timestamp-utc
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

integrity *boolean*

Description	Percentage of results meets integrity criteria
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* integrity *boolean*
Tree	integrity
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay measurement reported to the aggregate sample window
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minimum *number*

Description	Minimum delay measurement reported to the aggregate sample window
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

result *number*

Description	Delay being evaluated for reporting
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* result *number*
Tree	result
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-window-count *number*

Description	Number of sample windows completed meeting integrity requirement
Context	oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* sample-window-count *number*
Tree	sample-window-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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window-state *keyword*

Description Enter the window-state context

Context oam link-measurement interface name *string* statistics aggregate-sample-window index index *number* window-state *keyword*

Tree window-state

Options

- completed

  Window ran to completion
- in-progress

  Window currently active
- sw-reported

  Sample window threshold triggered report, aggregated sample window restarted
- asw-reported

  Aggregate sample window threshold triggered report
- terminated

  Window terminated prior to completion

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-window

Description Enter the sample-window context

Context for sample window statistics

Rolling buffer maintains the last 50 results.

Context oam link-measurement interface name *string* statistics sample-window

Tree sample-window

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index index *number*

Description Index list instance

Context oam link-measurement interface name *string* statistics sample-window index index *number*

Tree index

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index used to differentiate sample windows on the same subinterface

Context oam link-measurement interface name *string* statistics sample-window index index *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Average delay computed

Context oam link-measurement interface name *string* statistics sample-window index index *number* average *number*

Tree average

Units microseconds

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-packet-count *number*

Description Count of duplicate packets that have arrived during this sample window

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Context	oam link-measurement interface name *string* statistics sample-window index index *number* duplicate-packet-count *number*
Tree	duplicate-packet-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-timestamp-utc *string*

Description	Time (UTC) at which this sample window closed
Context	oam link-measurement interface name *string* statistics sample-window index index *number* end-timestamp-utc *string*
Tree	end-timestamp-utc
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-count *number*

Description	Number of erroneous delay measurements that occurred in this sample window
Context	oam link-measurement interface name *string* statistics sample-window index index *number* error-count *number*
Tree	error-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

integrity *boolean*

Description	Percentage of results meets integrity criteria

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Context	oam link-measurement interface name *string* statistics sample-window index index *number* integrity *boolean*
Tree	integrity
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay computed
Context	oam link-measurement interface name *string* statistics sample-window index index *number* maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum delay computed
Context	oam link-measurement interface name *string* statistics sample-window index index *number* minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-packets *number*

Description	Number of STAMP packets received from the session-reflector
Context	oam link-measurement interface name *string* statistics sample-window index index *number* received-packets *number*

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Tree	received-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

result *number*

Description	Delay evaluated for reporting
Context	oam link-measurement interface name *string* statistics sample-window index index *number* result *number*
Tree	result
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-malformed-flag-count *number*

Description	Count of packets in this sample window with the M (Malformed) bit set
Context	oam link-measurement interface name *string* statistics sample-window index index *number* stamp-malformed-flag-count *number*
Tree	stamp-malformed-flag-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-unrecognized-flag-count *number*

Description	Number of packets in this sample window with the U (Unrecognized) bit set
Context	oam link-measurement interface name *string* statistics sample-window index index *number* stamp-unrecognized-flag-count *number*

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Tree	stamp-unrecognized-flag-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of STAMP packets transmitted to the session-reflector
Context	oam link-measurement interface name *string* statistics sample-window index index *number* transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-state *keyword*

Description	Enter the window-state context
Context	oam link-measurement interface name *string* statistics sample-window index index *number* window-state *keyword*
Tree	window-state
Options	• completed Window ran to completion • in-progress Window currently active • sw-reported Sample window threshold triggered report, aggregated sample window restarted • terminated Window terminated prior to completion
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

zero-or-negative-delay-count *number*

Description Count of packets that have a zero or negative computed delay during this sample window

Context oam link-measurement interface name *string* statistics sample-window index index *number* zero-or-negative-delay-count *number*

Tree zero-or-negative-delay-count

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

waiting-for-resource *keyword*

Description The resource unavailable preventing the instantiation of the session

Context oam link-measurement interface name *string* waiting-for-resource *keyword*

Tree waiting-for-resource

Options

- transmit-resource

  No transmit resources available

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-template template-name *string*

Description List of measurement templates

Context oam link-measurement measurement-template template-name *string*

Tree measurement-template

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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	6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	255

template-name *string*

Description	Measurement template name
Context	oam link-measurement measurement-template template-name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the measurement template.
Context	oam link-measurement measurement-template template-name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-sample-window

Description	Enter the aggregate-sample-window context Context for aggregate sample window The aggregate sample window is a collection of sample windows. It executes threshold comparisons based on the results in each sample window.
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window
Tree	aggregate-sample-window

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Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multiplier *number*

Description	Number of sample windows comprising the aggregate sample window
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window multiplier *number*
Tree	multiplier
Range	1 to 12
Default	12
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold

Description	Enter the threshold context Context for threshold configuration
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window threshold
Tree	threshold
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

absolute *number*

Description	Absolute change compared to previously reported result
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window threshold absolute *number*
Tree	absolute

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Range	1 to 100000
Units	microseconds
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative *number*

Description	Percentage of change compared to previously reported result
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window threshold relative *number*
Tree	relative
Range	1 to 100
Units	percent
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-integrity *number*

Description	Required sample count to consider window integral When not configured, results are compared to the configured thresholds regardless of sample count.
Context	oam link-measurement measurement-template template-name *string* aggregate-sample-window window-integrity *number*
Tree	window-integrity
Range	1 to 100
Units	percent
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delay *keyword*

Description Delay measurement type of interest

Context oam link-measurement measurement-template template-name *string* delay *keyword*

Tree delay

Default minimum

Options

- minimum
- maximum
- average
- min-of-max
- max-of-min

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Text description for the measurement template

Context oam link-measurement measurement-template template-name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description Interval between test packet transmissions

Context oam link-measurement measurement-template template-name *string* interval *number*

Tree interval

Range 1 to 10

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Default	1
Units	seconds
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip

Description	Enter the ip context Context for IP attributes used by the measurement template
Context	oam link-measurement measurement-template template-name *string* ip
Tree	ip
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-udp-port *number*

Description	Destination UDP port
Context	oam link-measurement measurement-template template-name *string* ip destination-udp-port *number*
Tree	destination-udp-port
Range	1 to 65535
Default	862
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *(number | keyword)*

Description	DSCP value
Context	oam link-measurement measurement-template template-name *string* ip dscp *(number | keyword)*

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Tree	dscp
Range	0 to 63
Default	CS6
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22 • AF23 • CS3 • AF31 • AF32 • AF33 • CS4 • AF41 • AF42 • AF43 • CS5 • EF • CS6 • CS7
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class When value not specified, the sgt-qos value will be used
Context	oam link-measurement measurement-template template-name *string* ip forwarding-class *reference*

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Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-destination-discovery

Description	Enter the ipv6-destination-discovery context Context for IPv6 destination discovery Ping well-known multicast address ff02::2 (all routers) to solicit response from the peer. Use the source address in the response as the destination address in the STAMP test packets.
Context	oam link-measurement measurement-template template-name *string* ip ipv6-destination-discovery
Tree	ipv6-destination-discovery
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of IPv6 destination discovery
Context	oam link-measurement measurement-template template-name *string* ip ipv6-destination-discovery admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discovery-interval *number*

Description Transmission frequency while in discovery phase

Context oam link-measurement measurement-template template-name *string* ip ipv6-destination-discovery discovery-interval *number*

Tree discovery-interval

Range 1 to 10

Default 10

Units seconds

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discovery-timer *number*

Description Maximum time to remain in the discovery phase

The discovery phase will end when the IPv6 peer is discovered or this timer expires.

Context oam link-measurement measurement-template template-name *string* ip ipv6-destination-discovery discovery-timer *number*

Tree discovery-timer

Range 1 to 1800

Default 60

Units seconds

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

update-interval *number*

Description Transmission frequency to maintain the peer address after discovery phase completes

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When 0 no maintenance of the peer address once the discovery phase ends.

Context oam link-measurement measurement-template template-name *string* ip ipv6-destination-discovery update-interval *number*

Tree update-interval

Range 0 to 3600

Default 600

Units seconds

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

profile *keyword*

Description The profile or drop precedence

When value not specified, the sgt-qos value will be used

Context oam link-measurement measurement-template template-name *string* ip profile *keyword*

Tree profile

Options

- in

  The second level priority profile
- out

  The lowest level priotity profile
- exceed

  The third level priority profile
- in-plus

  The highest priority profile

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-udp-port *number*

Description Automatically allocate or statically configure the source UDP port

When 0 source UDP Port will automatically select an available source UDP port from the dynamic range. Configuring a specific value requires the UDP port to be assigned to the link-measurement application /oam ippm source-udp-port-pools port application-assignment.

Context oam link-measurement measurement-template template-name *string* ip source-udp-port *number*

Tree source-udp-port

Range 0 | 64374 to 64383

Default 0

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ttl *number*

Description Time to live

Context oam link-measurement measurement-template template-name *string* ip ttl *number*

Tree ttl

Range 1 to 255

Default 1

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-reported-dynamic-delay-hold *number*

Description Wait time to flush the last reported delay after operational change

This command configures the timer that specifies the wait time before the last reported delay measurement is flushed after a link measurement test enters the operationally down state.

When 0 the last reported delay is flushed immediately without delay.

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Context	oam link-measurement measurement-template template-name *string* last-reported-dynamic-delay-hold *number*
Tree	last-reported-dynamic-delay-hold
Range	0 to 86400
Default	86400
Units	seconds
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-type

Description	Enter the pdu-type context Selection of the test PDU to transmit
Context	oam link-measurement measurement-template template-name *string* pdu-type
Tree	pdu-type
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp

Description	Context for STAMP options used by the measurement template
Context	oam link-measurement measurement-template template-name *string* pdu-type stamp
Tree	stamp
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pad-tlv-size *number*

Description Increase the STAMP PDU by including the PAD TLV

Context oam link-measurement measurement-template template-name *string* pdu-type stamp pad-tlv-size *number*

Tree pad-tlv-size

Range 4 to 9714

Units bytes

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-path

Description Enter the return-path context

Context for the STAMP return-path control

Context oam link-measurement measurement-template template-name *string* pdu-type stamp return-path

Tree return-path

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection *keyword*

Description Influence return path processing at session-reflector

Context oam link-measurement measurement-template template-name *string* pdu-type stamp return-path selection *keyword*

Tree selection

Options

- link

  Include Return Path sub-TLV instructing session-reflector to use same IP Interface for return packets

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

twamp-light

Description Context for TWAMP-Light options used by the measurement template

Context oam link-measurement measurement-template template-name *string* pdu-type twamp-light

Tree twamp-light

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reference-active *number*

Description Number of interface leaf-refs to this specific measurement-template with admin-state enable

Context oam link-measurement measurement-template template-name *string* reference-active *number*

Tree reference-active

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reference-total *number*

Description Total number of interface leaf-refs to this specific measurement-template

Context oam link-measurement measurement-template template-name *string* reference-total *number*

Tree reference-total

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reporting *boolean*

Description Report value reaching the threshold

When true threshold events are reported to the routing engine. When false threshold events are not reported to the routing engine

Context oam link-measurement measurement-template template-name *string* reporting *boolean*

Tree reporting

Default true

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-window

Description Enter the sample-window context

Context for sample window

The sample window is a collection of individual test packet results. It executes threshold comparisons using the results in the sample window.

Context oam link-measurement measurement-template template-name *string* sample-window

Tree sample-window

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multiplier *number*

Description Defines the length of the measurement window, multiplier times interval

Context oam link-measurement measurement-template template-name *string* sample-window multiplier *number*

Tree multiplier

Range 1 to 900

Default 10

Configurable True

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold

Description Enter the threshold context

Context for threshold configuration

Context oam link-measurement measurement-template template-name *string* sample-window threshold

Tree threshold

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

absolute *number*

Description Absolute change compared to previously reported result

Context oam link-measurement measurement-template template-name *string* sample-window threshold absolute *number*

Tree absolute

Range 1 to 100000

Units microseconds

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relative *number*

Description Percentage of change compared to previously reported result

Context oam link-measurement measurement-template template-name *string* sample-window threshold relative *number*

Tree relative

Range 1 to 500

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Units	percent
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-integrity *number*

Description	Required sample count to consider window integral When not configured, results are compared to the configured thresholds regardless of sample count.
Context	oam link-measurement measurement-template template-name *string* sample-window window-integrity *number*
Tree	window-integrity
Range	1 to 100
Units	percent
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unidirectional-measurement *keyword*

Description	Method used to compute the forward unidirectional delay value
Context	oam link-measurement measurement-template template-name *string* unidirectional-measurement *keyword*
Tree	unidirectional-measurement
Default	derived
Options	• derived Computes forward unidirectional measurement using round-trip divide by 2 • actual Computes forward unidirectional measurements using (T2-T1)
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resources

Description Enter the resources context

Link Measurement resources

Context oam link-measurement resources

Tree resources

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface

Description Enter the interface context

Session-Sender Link Measurement IP interface resource

Context oam link-measurement resources interface

Tree interface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use *number*

Description Number of Link Measurement IP interface in use

Context oam link-measurement resources interface in-use *number*

Tree in-use

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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limit *number*

Description Number of Link Measurement IP interface

Context oam link-measurement resources interface limit *number*

Tree limit

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

template

Description Enter the template context

Session-Sender Link Measurement template resource

Context oam link-measurement resources template

Tree template

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use *number*

Description Number of configured Link Measurement templates

Context oam link-measurement resources template in-use *number*

Tree in-use

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

limit *number*

Description Number of Link Measurement templates

Context oam link-measurement resources template limit *number*

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Tree	limit
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmit

Description	Enter the transmit context Session-Sender Link Measurement transmit resource
Context	oam link-measurement resources transmit
Tree	transmit
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use *decimal-number*

Description	Number of Link Measurement transmit resources in use
Context	oam link-measurement resources transmit in-use *decimal-number*
Tree	in-use
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

limit *number*

Description	Number of Link Measurement transmit resources
Context	oam link-measurement resources transmit limit *number*
Tree	limit
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

waiting-for-resources

Description Enter the waiting-for-resources context

L3 subinterfaces or lag members waiting for Link Measurement Resources

Context oam link-measurement resources waiting-for-resources

Tree waiting-for-resources

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count *number*

Description Count of sessisons waiting for resources

Context oam link-measurement resources waiting-for-resources count *number*

Tree count

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description List of interface names

Context oam link-measurement resources waiting-for-resources interface name *string*

Tree interface

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description The interface name

Context oam link-measurement resources waiting-for-resources interface name *string*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member name *string*

Description List Ethernet interface

Context oam link-measurement resources waiting-for-resources interface name *string* member name *string*

Tree member

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Ethernet interface name associated with the LAG interface

Context oam link-measurement resources waiting-for-resources interface name *string* member name *string*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-ping

Description Enter the lsp-ping context

Container of last ping results for different MPLS and segment routing tunnels

Context oam lsp-ping

Tree lsp-ping

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp

Description	Enter the ldp context Container of LSP ping results for different LDP tunnels
Context	oam lsp-ping ldp
Tree	ldp
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the fec list instance
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Tree	fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the fec This is the destination that was pinged.
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP ping results for the prefix
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence sequence-id *number*

Description	List of probes sent during the test
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number*
Tree	sequence
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sequence-id *number*

Description Sequence ID of the probe, starting with 1 and incrementing by 1

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface *string*

Description The subinterface that was used to transmit the echo-request message

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* out-interface *string*

Tree out-interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description Enter the reply context

Details about the reply message for this sequence number or hop

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Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply
Tree	reply
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply received *boolean*
Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-sender *(ipv4-address \| ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch • upstream-interface-index-unknown • reserved • label-switched-at-stack-depth-n • label-switched-but-no-MPLS-at-stack-depth-n • fec-does-not-use-given-label-at-stack-depth-n • no-label-entry-at-stack-depth-n • protocol-unavailable-at-stack-depth-n • premature-termination • ddmap-tlv-has-return-code-subcode-details • label-switched-with-fec-change
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description	Return subcode in the echo-reply

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Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply return-subcode *number*
Tree	return-subcode
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description	The round trip-time between the request and reply for this sequence number or hop
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply round-trip-time *number*
Tree	round-trip-time
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sent *boolean*

Description	True when it is possible for the datapath to send the request message

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Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* request-sent *boolean*
Tree	request-sent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-failure-reason *keyword*

Description	Indicates the reason why the OAM manager could not send the request message
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* send-failure-reason *keyword*
Tree	send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found • packet-size-too-big • far-end-unreachable • prefix-unknown • ds-map-not-supported • unexpected-error • no errors
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Summary statistics for the test

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time

Description Enter the round-trip-time context

Statistics for the round trip time, considering all the probes sent in the test

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time

Tree round-trip-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description The average round trip-time across all probes

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time average *number*

Tree average

Default 0

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum *number*

Description	The maximum round trip-time across all probes
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time maximum *number*
Tree	maximum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	The minimum round trip-time across all probes
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time minimum *number*
Tree	minimum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-deviation *number*

Description	The standard deviation of the round trip-time across all probes
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time standard-deviation *number*
Tree	standard-deviation
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te

Description	Enter the rsvp-te context Container of LSP ping results for different RSVP-TE tunnels
Context	oam lsp-ping rsvp-te
Tree	rsvp-te
Configurable	False
Platforms	mpls-oam-rsvp-te

tunnel tunnel-name *string*

Description	Enter the tunnel list instance
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string*
Tree	tunnel
Configurable	False
Platforms	mpls-oam-rsvp-te

tunnel-name *string*

Description	The RSVP-TE tunnel name This is the tunnel that was pinged.
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string*
String Length	1 to 64
Configurable	False
Platforms	mpls-oam-rsvp-te

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session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP ping results for the prefix
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number*
Tree	session-id
Configurable	False
Platforms	mpls-oam-rsvp-te
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number*
Configurable	False
Platforms	mpls-oam-rsvp-te

path-destination

Description	Enter the path-destination context
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	mpls-oam-rsvp-te

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	mpls-oam-rsvp-te

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next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	mpls-oam-rsvp-te

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	mpls-oam-rsvp-te

sequence sequence-id *number*

Description	List of probes sent during the test
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number*
Tree	sequence
Configurable	False
Platforms	mpls-oam-rsvp-te

sequence-id *number*

Description	Sequence ID of the probe, starting with 1 and incrementing by 1
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number*
Configurable	False
Platforms	mpls-oam-rsvp-te

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out-interface *string*

Description	The subinterface that was used to transmit the echo-request message
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* out-interface *string*
Tree	out-interface
Configurable	False
Platforms	mpls-oam-rsvp-te

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	64
Configurable	False
Platforms	mpls-oam-rsvp-te

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply
Tree	reply
Configurable	False
Platforms	mpls-oam-rsvp-te

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply mpls-ttl *number*

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Tree	mpls-ttl
Default	0
Configurable	False
Platforms	mpls-oam-rsvp-te

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply received *boolean*
Tree	received
Configurable	False
Platforms	mpls-oam-rsvp-te

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	mpls-oam-rsvp-te

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch

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- upstream-interface-index-unknown
- reserved
- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms mpls-oam-rsvp-te

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms mpls-oam-rsvp-te

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

Platforms mpls-oam-rsvp-te

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udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	mpls-oam-rsvp-te

request-sent *boolean*

Description	True when it is possible for the datapath to send the request message
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* request-sent *boolean*
Tree	request-sent
Configurable	False
Platforms	mpls-oam-rsvp-te

send-failure-reason *keyword*

Description	Indicates the reason why the OAM manager could not send the request message
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* sequence sequence-id *number* send-failure-reason *keyword*
Tree	send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found

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- packet-size-too-big
- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms mpls-oam-rsvp-te

statistics

Description Enter the statistics context

Summary statistics for the test

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics

Tree statistics

Configurable False

Platforms mpls-oam-rsvp-te

round-trip-time

Description Enter the round-trip-time context

Statistics for the round trip time, considering all the probes sent in the test

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics round-trip-time

Tree round-trip-time

Configurable False

Platforms mpls-oam-rsvp-te

average *number*

Description The average round trip-time across all probes

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics round-trip-time average *number*

Tree average

Default 0

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Units	microseconds
Configurable	False
Platforms	mpls-oam-rsvp-te

maximum *number*

Description	The maximum round trip-time across all probes
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics round-trip-time maximum *number*
Tree	maximum
Default	0
Units	microseconds
Configurable	False
Platforms	mpls-oam-rsvp-te

minimum *number*

Description	The minimum round trip-time across all probes
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics round-trip-time minimum *number*
Tree	minimum
Default	0
Units	microseconds
Configurable	False
Platforms	mpls-oam-rsvp-te

standard-deviation *number*

Description	The standard deviation of the round trip-time across all probes
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* statistics round-trip-time standard-deviation *number*
Tree	standard-deviation
Default	0
Units	microseconds
Configurable	False
Platforms	mpls-oam-rsvp-te

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test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	mpls-oam-rsvp-te

sr-isis

Description	Enter the sr-isis context Container of LSP ping results for different SR-ISIS tunnels
Context	oam lsp-ping sr-isis
Tree	sr-isis
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix-sid list instance
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix-sid
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the SID This is the destination that was pinged.
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP ping results for the prefix
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence sequence-id *number*

Description	List of probes sent during the test
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number*

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Tree	sequence
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description	Sequence ID of the probe, starting with 1 and incrementing by 1
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface *string*

Description	The subinterface that was used to transmit the echo-request message
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* out-interface *string*
Tree	out-interface
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	64
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply
Tree	reply
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply received *boolean*
Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reply-sender *(ipv4-address | ipv6-address)*

Description The IP address of the sender of the echo-reply message

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply reply-sender *(ipv4-address | ipv6-address)*

Tree reply-sender

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description Return code value in the echo-reply

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply return-code *keyword*

Tree return-code

Default no-return-code

Options

- no-return-code
- malformed-echo-request-received
- one-or-more-tlvs-not-understood
- replying-router-is-egress-for-fec-at-stack-depth-n
- replying-router-has-no-mapping-for-fec-at-stack-depth-n
- downstream-mapping-mismatch
- upstream-interface-index-unknown
- reserved
- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description	Return subcode in the echo-reply
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply return-subcode *number*
Tree	return-subcode
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description	The round trip-time between the request and reply for this sequence number or hop
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply round-trip-time *number*
Tree	round-trip-time
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sent *boolean*

Description	True when it is possible for the datapath to send the request message
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* request-sent *boolean*
Tree	request-sent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-failure-reason *keyword*

Description	Indicates the reason why the OAM manager could not send the request message
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* sequence sequence-id *number* send-failure-reason *keyword*
Tree	send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found • packet-size-too-big • far-end-unreachable • prefix-unknown • ds-map-not-supported • unexpected-error • no errors

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Summary statistics for the test
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time

Description	Enter the round-trip-time context Statistics for the round trip time, considering all the probes sent in the test
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time
Tree	round-trip-time
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	The average round trip-time across all probes
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time average *number*
Tree	average
Default	0
Units	microseconds
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	The maximum round trip-time across all probes
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time maximum *number*
Tree	maximum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	The minimum round trip-time across all probes
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time minimum *number*
Tree	minimum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-deviation *number*

Description	The standard deviation of the round trip-time across all probes
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* statistics round-trip-time standard-deviation *number*
Tree	standard-deviation
Default	0
Units	microseconds

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy

Description	Enter the te-policy context Parameters required to ping the endpoint of a TE-Policy tunnel
Context	oam lsp-ping te-policy
Tree	te-policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-colored

Description	Enter the sr-colored context
Context	oam lsp-ping te-policy sr-colored
Tree	sr-colored
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Enter the policy list instance
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Name of Colored Traffic Engineering Policy to be tested. Any programmed candidate-path can be probed.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Colored Traffic Engineering Policy, endpoint IP address.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP ping results for the prefix
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number*
Tree	session-id
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence sequence-id *number*

Description	List of probes sent during the test
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number*
Tree	sequence
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sequence-id *number*

Description Sequence ID of the probe, starting with 1 and incrementing by 1

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface *string*

Description The subinterface that was used to transmit the echo-request message

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* out-interface *string*

Tree out-interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reply

Description Enter the reply context

Details about the reply message for this sequence number or hop

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply

Tree reply

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description The value of the MPLS TTL in the top label stack entry of the received echo-reply message

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply mpls-ttl *number*

Tree mpls-ttl

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description Reads true if the reply message was received

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply received *boolean*

Tree received

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reply-sender *(ipv4-address | ipv6-address)*

Description The IP address of the sender of the echo-reply message

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply reply-sender *(ipv4-address | ipv6-address)*

Tree reply-sender

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description Return code value in the echo-reply

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply return-code *keyword*

Tree return-code

Default no-return-code

Options

- no-return-code
- malformed-echo-request-received
- one-or-more-tlvs-not-understood
- replying-router-is-egress-for-fec-at-stack-depth-n
- replying-router-has-no-mapping-for-fec-at-stack-depth-n
- downstream-mapping-mismatch
- upstream-interface-index-unknown
- reserved
- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description	Return subcode in the echo-reply
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply return-subcode *number*
Tree	return-subcode
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description	The round trip-time between the request and reply for this sequence number or hop
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply round-trip-time *number*
Tree	round-trip-time
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* reply udp-data-length *number*
Tree	udp-data-length

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Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sent *boolean*

Description	True when it is possible for the datapath to send the request message
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* request-sent *boolean*
Tree	request-sent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-failure-reason *keyword*

Description	Indicates the reason why the OAM manager could not send the request message
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* sequence sequence-id *number* send-failure-reason *keyword*
Tree	send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found • packet-size-too-big

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- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Summary statistics for the test

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time

Description Enter the round-trip-time context

Statistics for the round trip time, considering all the probes sent in the test

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics round-trip-time

Tree round-trip-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description The average round trip-time across all probes

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Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics round-trip-time average *number*
Tree	average
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	The maximum round trip-time across all probes
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics round-trip-time maximum *number*
Tree	maximum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	The minimum round trip-time across all probes
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics round-trip-time minimum *number*
Tree	minimum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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standard-deviation *number*

Description	The standard deviation of the round trip-time across all probes
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* statistics round-trip-time standard-deviation *number*
Tree	standard-deviation
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-uncolored

Description	Enter the sr-uncolored context
Context	oam lsp-ping te-policy sr-uncolored
Tree	sr-uncolored
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string* protocol-origin *keyword*

Description	Enter the policy list instance

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Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Tree	policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description	Name of Uncolored Traffic Engineering Policy to be tested. Any available primary or standby or active secondaty candidate-path can be probed.
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description	Uncolored Traffic Engineering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Options	• pcep PCEP used as signalling mechanism for the candidate path • bgp BGP used as signalling mechanism for the candidate path • local Management interface used for candidate path instantiation
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP ping results for the prefix
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*

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Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence sequence-id *number*

Description	List of probes sent during the test
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number*
Tree	sequence
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description Sequence ID of the probe, starting with 1 and incrementing by 1

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-interface *string*

Description The subinterface that was used to transmit the echo-request message

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* out-interface *string*

Tree out-interface

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reply

Description Enter the reply context

Details about the reply message for this sequence number or hop

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply

Tree reply

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description The value of the MPLS TTL in the top label stack entry of the received echo-reply message

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply mpls-ttl *number*

Tree mpls-ttl

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description Reads true if the reply message was received

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply received *boolean*

Tree received

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reply-sender *(ipv4-address | ipv6-address)*

Description The IP address of the sender of the echo-reply message

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply reply-sender *(ipv4-address | ipv6-address)*

Tree reply-sender

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description Return code value in the echo-reply

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply return-code *keyword*

Tree return-code

Default no-return-code

Options

- no-return-code
- malformed-echo-request-received
- one-or-more-tlvs-not-understood
- replying-router-is-egress-for-fec-at-stack-depth-n
- replying-router-has-no-mapping-for-fec-at-stack-depth-n
- downstream-mapping-mismatch
- upstream-interface-index-unknown
- reserved
- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description	Return subcode in the echo-reply
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply return-subcode *number*
Tree	return-subcode
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description	The round trip-time between the request and reply for this sequence number or hop
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply round-trip-time *number*
Tree	round-trip-time
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0

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Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sent *boolean*

Description	True when it is possible for the datapath to send the request message
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* request-sent *boolean*
Tree	request-sent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-failure-reason *keyword*

Description	Indicates the reason why the OAM manager could not send the request message
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* sequence sequence-id *number* send-failure-reason *keyword*
Tree	send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found • packet-size-too-big • far-end-unreachable • prefix-unknown

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- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Summary statistics for the test

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time

Description Enter the round-trip-time context

Statistics for the round trip time, considering all the probes sent in the test

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics round-trip-time

Tree round-trip-time

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description The average round trip-time across all probes

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics round-trip-time average *number*

Tree average

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Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	The maximum round trip-time across all probes
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics round-trip-time maximum *number*
Tree	maximum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	The minimum round trip-time across all probes
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics round-trip-time minimum *number*
Tree	minimum
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-deviation *number*

Description	The standard deviation of the round trip-time across all probes
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* statistics round-trip-time standard-deviation *number*

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Tree	standard-deviation
Default	0
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-trace

Description	Enter the lsp-trace context Container of last trace results for different MPLS and segment routing tunnels
Context	oam lsp-trace
Tree	lsp-trace
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp

Description	Enter the ldp context Container of LSP trace results for different LDP tunnels
Context	oam lsp-trace ldp
Tree	ldp
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the fec list instance
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Tree	fec
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the fec This is the destination that was traced.
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP trace results for the prefix
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID

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Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description	List of hops traced
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description	The hop index, starting at minimum-mpls-ttl and incrementing by 1 up to maximum-mpls-ttl or until the destination is reached
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe probe-index *number*

Description	Probes sent to a given hop
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number*
Tree	probe
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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probe-index *number*

Description	The probe index, probes received from a given hop. A given LSR may respond one than once, typically once with EgressRouter and once with Destination Router Match Label identifier
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-detailed-mapping id *number*

Description	List of DDMAP TLVs included in the echo-reply from this hop The first one (with id 1) will be used by the sender.
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*
Tree	downstream-detailed-mapping
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description	Identifier of the DDMAP TLV
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-type *keyword*

Description	Indicates the addressing of the downstream interface

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Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* address-type *keyword*
Tree	address-type
Options	• ipv4-numbered • ipv4-unnumbered • ipv6-numbered • ipv6-unnumbered
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-interface-address *(ipv4-address | ipv6-address)*

Description	The interface address of the next-hop router
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-interface-address *(ipv4-address | ipv6-address)*
Tree	downstream-interface-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-router-address *(ipv4-address | ipv6-address)*

Description	The router ID or interface address of the next-hop router
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-router-address *(ipv4-address | ipv6-address)*
Tree	downstream-router-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls-label index *number*

Description	List of labels in the label stack that would have appeared if this router were forwarding the packet through this downstream interface
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Tree	mpls-label
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index of label stack entry, starting at 1 (topmost label)
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	MPLS label value
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocol *keyword*

Description The label distribution protocol for the downstream label

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* protocol *keyword*

Tree protocol

Default unknown

Options

- unknown
- static
- bgp
- ldp
- rsvp-te
- ospf
- isis
- ospfv3

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu *number*

Description The size in octets of the largest MPLS frame (including label stack) that fits on this downstream interface

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mtu *number*

Tree mtu

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-probe-send-failure-reason *keyword*

Description Indicates the reason why the OAM manager could not send the request message

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Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* last-probe-send-failure-reason *keyword*
Tree	last-probe-send-failure-reason
Default	no errors
Options	• timeout • source-ip-not-local • invalid-prefix • sr-prefix-is-local • ldp-prefix-is-local • invalid-dest-ip • dest-address-type-mismatch • next-hop-ip-not-found • next-hop-if-name-not-found • packet-size-too-big • far-end-unreachable • prefix-unknown • ds-map-not-supported • unexpected-error • no errors
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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probes-sent *number*

Description The numnber of echo-request messages sent to the hop until a reply was received

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* probes-sent *number*

Tree probes-sent

Range 1 to 10

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description Enter the reply context

Details about the reply message for this sequence number or hop

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply

Tree reply

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description The value of the MPLS TTL in the top label stack entry of the received echo-reply message

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply mpls-ttl *number*

Tree mpls-ttl

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply received *boolean*
Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch • upstream-interface-index-unknown • reserved

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- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address \| ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te

Description	Enter the rsvp-te context Container of LSP trace results for different RSVP-TE tunnels

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Context	oam lsp-trace rsvp-te
Tree	rsvp-te
Configurable	False
Platforms	mpls-oam-rsvp-te

tunnel tunnel-name *string*

Description	Enter the tunnel list instance
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string*
Tree	tunnel
Configurable	False
Platforms	mpls-oam-rsvp-te

tunnel-name *string*

Description	The RSVP-TE tunnel name This is the tunnel that was traced.
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string*
String Length	1 to 64
Configurable	False
Platforms	mpls-oam-rsvp-te

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP trace results for the prefix
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number*
Tree	session-id
Configurable	False
Platforms	mpls-oam-rsvp-te
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number*
Configurable	False

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Platforms	mpls-oam-rsvp-te

hop hop-index *number*

Description	List of hops traced
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number*
Tree	hop
Configurable	False
Platforms	mpls-oam-rsvp-te

hop-index *number*

Description	The hop index, starting at minimum-mpls-ttl and incrementing by 1 up to maximum-mpls-ttl or until the destination is reached
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number*
Configurable	False
Platforms	mpls-oam-rsvp-te

probe probe-index *number*

Description	Probes sent to a given hop
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number*
Tree	probe
Configurable	False
Platforms	mpls-oam-rsvp-te

probe-index *number*

Description	The probe index, probes received from a given hop. A given LSR may respond one than once, typically once with EgressRouter and once with Destination Router Match Label identifier
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number*
Configurable	False
Platforms	mpls-oam-rsvp-te

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downstream-detailed-mapping id *number*

Description List of DDMAP TLVs included in the echo-reply from this hop

The first one (with id 1) will be used by the sender.

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Tree downstream-detailed-mapping

Configurable False

Platforms mpls-oam-rsvp-te

id *number*

Description Identifier of the DDMAP TLV

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Configurable False

Platforms mpls-oam-rsvp-te

address-type *keyword*

Description Indicates the addressing of the downstream interface

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* address-type *keyword*

Tree address-type

Options

- ipv4-numbered
- ipv4-unnumbered
- ipv6-numbered
- ipv6-unnumbered

Configurable False

Platforms mpls-oam-rsvp-te

downstream-interface-address *(ipv4-address | ipv6-address)*

Description The interface address of the next-hop router

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Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-interface-address *(ipv4-address | ipv6-address)*
Tree	downstream-interface-address
Configurable	False
Platforms	mpls-oam-rsvp-te

downstream-router-address *(ipv4-address | ipv6-address)*

Description	The router ID or interface address of the next-hop router
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-router-address *(ipv4-address | ipv6-address)*
Tree	downstream-router-address
Configurable	False
Platforms	mpls-oam-rsvp-te

mpls-label index *number*

Description	List of labels in the label stack that would have appeared if this router were forwarding the packet through this downstream interface
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Tree	mpls-label
Configurable	False
Platforms	mpls-oam-rsvp-te

index *number*

Description	Index of label stack entry, starting at 1 (topmost label)
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Configurable	False
Platforms	mpls-oam-rsvp-te

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label *(number | keyword)*

Description MPLS label value

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms mpls-oam-rsvp-te

protocol *keyword*

Description The label distribution protocol for the downstream label

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* protocol *keyword*

Tree protocol

Default unknown

Options

- unknown
- static
- bgp
- ldp
- rsvp-te
- ospf
- isis
- ospfv3

Configurable False

Platforms mpls-oam-rsvp-te

mtu *number*

Description The size in octets of the largest MPLS frame (including label stack) that fits on this downstream interface

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Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mtu *number*

Tree mtu

Configurable False

Platforms mpls-oam-rsvp-te

last-probe-send-failure-reason *keyword*

Description Indicates the reason why the OAM manager could not send the request message

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* last-probe-send-failure-reason *keyword*

Tree last-probe-send-failure-reason

Default no errors

Options

- timeout
- source-ip-not-local
- invalid-prefix
- sr-prefix-is-local
- ldp-prefix-is-local
- invalid-dest-ip
- dest-address-type-mismatch
- next-hop-ip-not-found
- next-hop-if-name-not-found
- packet-size-too-big
- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms mpls-oam-rsvp-te

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probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	64
Configurable	False
Platforms	mpls-oam-rsvp-te

probes-sent *number*

Description	The numnber of echo-request messages sent to the hop until a reply was received
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* probes-sent *number*
Tree	probes-sent
Range	1 to 10
Configurable	False
Platforms	mpls-oam-rsvp-te

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply
Tree	reply
Configurable	False
Platforms	mpls-oam-rsvp-te

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message

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Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	mpls-oam-rsvp-te

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply received *boolean*
Tree	received
Configurable	False
Platforms	mpls-oam-rsvp-te

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	mpls-oam-rsvp-te

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n

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- replying-router-has-no-mapping-for-fec-at-stack-depth-n
- downstream-mapping-mismatch
- upstream-interface-index-unknown
- reserved
- label-switched-at-stack-depth-n
- label-switched-but-no-MPLS-at-stack-depth-n
- fec-does-not-use-given-label-at-stack-depth-n
- no-label-entry-at-stack-depth-n
- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms mpls-oam-rsvp-te

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms mpls-oam-rsvp-te

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

Platforms mpls-oam-rsvp-te

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udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* hop hop-index *number* probe probe-index *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	mpls-oam-rsvp-te

path-destination

Description	Enter the path-destination context
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	mpls-oam-rsvp-te

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	mpls-oam-rsvp-te

next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	mpls-oam-rsvp-te

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subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	mpls-oam-rsvp-te

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	mpls-oam-rsvp-te

sr-isis

Description	Enter the sr-isis context Container of LSP trace results for different SR-ISIS tunnels
Context	oam lsp-trace sr-isis
Tree	sr-isis
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix-sid list instance
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix-sid
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the SID This is the destination that was traced.
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP trace results for the prefix
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description	List of hops traced

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Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description	The hop index, starting at minimum-mpls-ttl and incrementing by 1 up to maximum-mpls-ttl or until the destination is reached
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe probe-index *number*

Description	Probes sent to a given hop
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number*
Tree	probe
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-index *number*

Description	The probe index, probes received from a given hop. A given LSR may respond one than once, typically once with EgressRouter and once with Destination Router Match Label identifier
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-detailed-mapping id *number*

Description List of DDMAP TLVs included in the echo-reply from this hop

The first one (with id 1) will be used by the sender.

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Tree downstream-detailed-mapping

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Identifier of the DDMAP TLV

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-type *keyword*

Description Indicates the addressing of the downstream interface

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* address-type *keyword*

Tree address-type

Options

- ipv4-numbered
- ipv4-unnumbered
- ipv6-numbered
- ipv6-unnumbered

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-interface-address *(ipv4-address | ipv6-address)*

Description	The interface address of the next-hop router
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-interface-address *(ipv4-address | ipv6-address)*
Tree	downstream-interface-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-router-address *(ipv4-address | ipv6-address)*

Description	The router ID or interface address of the next-hop router
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-router-address *(ipv4-address | ipv6-address)*
Tree	downstream-router-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label index *number*

Description	List of labels in the label stack that would have appeared if this router were forwarding the packet through this downstream interface
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Tree	mpls-label
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Index of label stack entry, starting at 1 (topmost label)
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description	MPLS label value
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* label *(number | keyword)*
Tree	label
Range	16 to 1048575
Options	• IPV4_EXPLICIT_NULL • IPV6_EXPLICIT_NULL • IMPLICIT_NULL
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description	The label distribution protocol for the downstream label
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* protocol *keyword*
Tree	protocol

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Default unknown

Options
- unknown
- static
- bgp
- ldp
- rsvp-te
- ospf
- isis
- ospfv3

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu *number*

Description The size in octets of the largest MPLS frame (including label stack) that fits on this downstream interface

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mtu *number*

Tree mtu

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-probe-send-failure-reason *keyword*

Description Indicates the reason why the OAM manager could not send the request message

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* last-probe-send-failure-reason *keyword*

Tree last-probe-send-failure-reason

Default no errors

Options
- timeout
- source-ip-not-local
- invalid-prefix

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- sr-prefix-is-local
- ldp-prefix-is-local
- invalid-dest-ip
- dest-address-type-mismatch
- next-hop-ip-not-found
- next-hop-if-name-not-found
- packet-size-too-big
- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probes-sent *number*

Description The numnber of echo-request messages sent to the hop until a reply was received

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* probes-sent *number*

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Tree	probes-sent
Range	1 to 10
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply
Tree	reply
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply received *boolean*

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Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch • upstream-interface-index-unknown • reserved • label-switched-at-stack-depth-n • label-switched-but-no-MPLS-at-stack-depth-n • fec-does-not-use-given-label-at-stack-depth-n • no-label-entry-at-stack-depth-n

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- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* hop hop-index *number* probe probe-index *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address \| ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address \| ipv6-address)*

Description	Egress IP next hop address used with path destination

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Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy

Description	Enter the te-policy context Parameters required to trace the endpoint of a TE-Policy tunnel
Context	oam lsp-trace te-policy
Tree	te-policy
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-colored

Description	Enter the sr-colored context
Context	oam lsp-trace te-policy sr-colored
Tree	sr-colored
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Enter the policy list instance
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Name of Colored Traffic Engineering Policy to be traced. Any programmed candidate-path can be traced.
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Colored Traffic Engineering Policy, endpoint IP address.

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Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description	List of recent sessions (up to 10) with saved LSP trace results for the prefix
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number*
Tree	session-id
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	10

id *number*

Description	The system-assigned session ID
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description	List of hops traced
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hop-index *number*

Description	The hop index, starting at minimum-mpls-ttl and incrementing by 1 up to maximum-mpls-ttl or until the destination is reached
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe probe-index *number*

Description	Probes sent to a given hop
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number*
Tree	probe
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-index *number*

Description	The probe index, probes received from a given hop. A given LSR may respond one than once, typically once with EgressRouter and once with Destination Router Match Label identifier
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-detailed-mapping id *number*

Description	List of DDMAP TLVs included in the echo-reply from this hop

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The first one (with id 1) will be used by the sender.

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Tree downstream-detailed-mapping

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Identifier of the DDMAP TLV

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-type *keyword*

Description Indicates the addressing of the downstream interface

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* address-type *keyword*

Tree address-type

Options

- ipv4-numbered
- ipv4-unnumbered
- ipv6-numbered
- ipv6-unnumbered

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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downstream-interface-address *(ipv4-address | ipv6-address)*

Description	The interface address of the next-hop router
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-interface-address *(ipv4-address | ipv6-address)*
Tree	downstream-interface-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-router-address *(ipv4-address | ipv6-address)*

Description	The router ID or interface address of the next-hop router
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-router-address *(ipv4-address | ipv6-address)*
Tree	downstream-router-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label index *number*

Description	List of labels in the label stack that would have appeared if this router were forwarding the packet through this downstream interface
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Tree	mpls-label
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description Index of label stack entry, starting at 1 (topmost label)

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description MPLS label value

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description The label distribution protocol for the downstream label

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* protocol *keyword*

Tree protocol

Default unknown

Options

- unknown

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- static
- bgp
- ldp
- rsvp-te
- ospf
- isis
- ospfv3

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu *number*

Description The size in octets of the largest MPLS frame (including label stack) that fits on this downstream interface

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mtu *number*

Tree mtu

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-probe-send-failure-reason *keyword*

Description Indicates the reason why the OAM manager could not send the request message

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* last-probe-send-failure-reason *keyword*

Tree last-probe-send-failure-reason

Default no errors

Options

- timeout
- source-ip-not-local
- invalid-prefix

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- sr-prefix-is-local
- ldp-prefix-is-local
- invalid-dest-ip
- dest-address-type-mismatch
- next-hop-ip-not-found
- next-hop-if-name-not-found
- packet-size-too-big
- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probes-sent *number*

Description The numnber of echo-request messages sent to the hop until a reply was received

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* probes-sent *number*

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Tree	probes-sent
Range	1 to 10
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply
Tree	reply
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply received *boolean*

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Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch • upstream-interface-index-unknown • reserved • label-switched-at-stack-depth-n • label-switched-but-no-MPLS-at-stack-depth-n • fec-does-not-use-given-label-at-stack-depth-n • no-label-entry-at-stack-depth-n

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- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* hop hop-index *number* probe probe-index *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sr-uncolored

Description	Enter the sr-uncolored context
Context	oam lsp-trace te-policy sr-uncolored
Tree	sr-uncolored
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string* protocol-origin *keyword*

Description	Enter the policy list instance
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Tree	policy
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description	Name of Uncolored Traffic Engineering Policy which is to be traced. Any available primary or standby or active secondaty candidate-path can be traced.
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description	Uncolored Traffic Engineering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.

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Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id id *number*

Description List of recent sessions (up to 10) with saved LSP trace results for the prefix

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number*

Tree session-id

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 10

id *number*

Description The system-assigned session ID

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop hop-index *number*

Description List of hops traced

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Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number*
Tree	hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hop-index *number*

Description	The hop index, starting at minimum-mpls-ttl and incrementing by 1 up to maximum-mpls-ttl or until the destination is reached
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe probe-index *number*

Description	Probes sent to a given hop
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number*
Tree	probe
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-index *number*

Description	The probe index, probes received from a given hop. A given LSR may respond one than once, typically once with EgressRouter and once with Destination Router Match Label identifier
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number*
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-detailed-mapping id *number*

Description List of DDMAP TLVs included in the echo-reply from this hop

The first one (with id 1) will be used by the sender.

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Tree downstream-detailed-mapping

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Identifier of the DDMAP TLV

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address-type *keyword*

Description Indicates the addressing of the downstream interface

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* address-type *keyword*

Tree address-type

Options

- ipv4-numbered
- ipv4-unnumbered
- ipv6-numbered
- ipv6-unnumbered

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-interface-address *(ipv4-address | ipv6-address)*

Description	The interface address of the next-hop router
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-interface-address *(ipv4-address | ipv6-address)*
Tree	downstream-interface-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

downstream-router-address *(ipv4-address | ipv6-address)*

Description	The router ID or interface address of the next-hop router
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* downstream-router-address *(ipv4-address | ipv6-address)*
Tree	downstream-router-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-label index *number*

Description	List of labels in the label stack that would have appeared if this router were forwarding the packet through this downstream interface
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*
Tree	mpls-label
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index of label stack entry, starting at 1 (topmost label)

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *(number | keyword)*

Description MPLS label value

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* label *(number | keyword)*

Tree label

Range 16 to 1048575

Options

- IPV4_EXPLICIT_NULL
- IPV6_EXPLICIT_NULL
- IMPLICIT_NULL

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description The label distribution protocol for the downstream label

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mpls-label index *number* protocol *keyword*

Tree protocol

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Default unknown

Options
- unknown
- static
- bgp
- ldp
- rsvp-te
- ospf
- isis
- ospfv3

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu *number*

Description The size in octets of the largest MPLS frame (including label stack) that fits on this downstream interface

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* downstream-detailed-mapping id *number* mtu *number*

Tree mtu

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-probe-send-failure-reason *keyword*

Description Indicates the reason why the OAM manager could not send the request message

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* last-probe-send-failure-reason *keyword*

Tree last-probe-send-failure-reason

Default no errors

Options
- timeout
- source-ip-not-local
- invalid-prefix

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- sr-prefix-is-local
- ldp-prefix-is-local
- invalid-dest-ip
- dest-address-type-mismatch
- next-hop-ip-not-found
- next-hop-if-name-not-found
- packet-size-too-big
- far-end-unreachable
- prefix-unknown
- ds-map-not-supported
- unexpected-error
- no errors

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 64

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probes-sent *number*

Description The numnber of echo-request messages sent to the hop until a reply was received

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* probes-sent *number*

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Tree	probes-sent
Range	1 to 10
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply

Description	Enter the reply context Details about the reply message for this sequence number or hop
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply
Tree	reply
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The value of the MPLS TTL in the top label stack entry of the received echo-reply message
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply mpls-ttl *number*
Tree	mpls-ttl
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received *boolean*

Description	Reads true if the reply message was received
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply received *boolean*

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Tree	received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-sender *(ipv4-address | ipv6-address)*

Description	The IP address of the sender of the echo-reply message
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply reply-sender *(ipv4-address | ipv6-address)*
Tree	reply-sender
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-code *keyword*

Description	Return code value in the echo-reply
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-code *keyword*
Tree	return-code
Default	no-return-code
Options	• no-return-code • malformed-echo-request-received • one-or-more-tlvs-not-understood • replying-router-is-egress-for-fec-at-stack-depth-n • replying-router-has-no-mapping-for-fec-at-stack-depth-n • downstream-mapping-mismatch • upstream-interface-index-unknown • reserved • label-switched-at-stack-depth-n • label-switched-but-no-MPLS-at-stack-depth-n • fec-does-not-use-given-label-at-stack-depth-n • no-label-entry-at-stack-depth-n

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- protocol-unavailable-at-stack-depth-n
- premature-termination
- ddmap-tlv-has-return-code-subcode-details
- label-switched-with-fec-change

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

return-subcode *number*

Description Return subcode in the echo-reply

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply return-subcode *number*

Tree return-subcode

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-time *number*

Description The round trip-time between the request and reply for this sequence number or hop

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply round-trip-time *number*

Tree round-trip-time

Default 0

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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udp-data-length *number*

Description	The length of the UDP payload
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* hop hop-index *number* probe probe-index *number* reply udp-data-length *number*
Tree	udp-data-length
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-destination

Description	Enter the path-destination context
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination
Tree	path-destination
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the path destination
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-hop *(ipv4-address | ipv6-address)*

Description	Egress IP next hop address used with path destination
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *string*

Description	Egress router sub-interface used with the path destination
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* path-destination subinterface *string*
Tree	subinterface
String Length	5 to 27
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-active *boolean*

Description	Indicates if the test is still running (true) or not (false)
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* session-id id *number* test-active *boolean*
Tree	test-active
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

performance-monitoring

Description	OAM Performance Monitoring
Context	oam performance-monitoring

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Tree	performance-monitoring
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethcfm

Description	Enable the ethcfm context
Context	oam performance-monitoring ethcfm
Tree	ethcfm
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay

Description	Enter the delay context
Context	oam performance-monitoring ethcfm delay
Tree	delay
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-group bin-group-name *string*

Description	Enter the bin-group list instance
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string*
Tree	bin-group
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bin-group-name *string*

Description The name of the bin group

Each performance monitoring session requires a bin-group references. The bin-group includes information on how the delay information is binned and any threshold or exclusion functions. Each performance monitoring session references the bin-group 'default'. The 'default' bin-group is created by the system. Its purpose is to reduce the configuration when the binning of information is not a key requirement for the performance monitoring session. It contains basic values. The bin-type parameters cannot be modified. The following bin-type and lower-bound values are assigned to the bin-group 'default'. These values are microseconds.

bin-type fd bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 } bin 2 { lower-bound 10000 } bin-type fdr bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 } bin-type ifdv bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 }

The bin-group 'default' can be entered in the configuration. It must include the admin-state 'enable'. If entered in the configuration it cannot be deleted if any performance monitoring session is referencing it. The information for the bin-group 'default' is available in state.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of the bin group

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bin-type bin-metric *keyword*

Description	Enter the bin-type list instance
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword*
Tree	bin-type
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description	Enter the bin-type list instance
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword*
Options	• fd • fdr • ifdv
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin bin-number *number*

Description	Enter the bin number list instance
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number*
Tree	bin
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-number *number*

Description	The number of the bin

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The bin values must be contiguous. Space cannot be left between numerical values. If no lower-bound is configured for a bin the default lower-bound will be 1000 microseconds multiplied by the bin number. If this value conflicts with a lower bin number lower-bound value the configuration of an appropriate lower-bound number for the bin must be configured in the same transaction as the addition of the bin to the bin-group.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number*

Range 0 to 9

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lower-bound *number*

Description Lower bound for the bin

The lower-bound value between two adjacent bins represents the range of results that will be mapped to the bin. The lower-bound value for the bin represents the smallest value in the range. The lower-bound value of the adjacent higher bin represents the smallest value in its range.

Bin 0 must have a lower-bound value of '0'. Bin numbers must not have conflicting lower-bound values. Higher bin numbers must not have lower-bound values less than any lower bin number.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number* lower-bound *number*

Tree lower-bound

Range 0 | 1 to 4294967295

Units microseconds

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-event direction *keyword*

Description Enter the delay-event list instance

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword*

Tree delay-event

Configurable True

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement of interest

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword*

Options

- forward
- backward
- round-trip

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description The not be exceeded value used to clear a previously triggered threshold crossing alarm

Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

A value '0' means a subsequent measurement interval must have no results in the bins counted against the threshold.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* clear-threshold *number*

Tree clear-threshold

Range 0 to 863999

Configurable True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-lowest-bin *number*

Description	Lowest bin excluded from the threshold crossing alarm count This bin must be higher than the ../lowest-bin, which is used to specify which bins to consider for threshold crossing alarms. If the configured bin number does not exist then this leaf have no effect.
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* exclude-lowest-bin *number*
Tree	exclude-lowest-bin
Range	1 to 9
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lowest-bin *number*

Description	The lowest bin number to include when comparing counts to thresholds The number of results in this bin and all higher bins are compared to the configured thresholds. If the configured bin number does not exist then no threshold will be trigger.
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* lowest-bin *number*
Tree	lowest-bin
Range	0 to 9
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description	Raise threshold count for excessive delay

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A threshold crossing alarm is raised when the raise-threshold value is reached. The raise threshold is compared to the number of results the ../lowest-bin and all higher, excluding any results that would be excluded by the ../exclude-lowest-bin.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* raise-threshold *number*

Tree raise-threshold

Range 1 to 864000

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-from-avg direction *keyword*

Description Enter the exclude-from-avg list instance used to exclude specified bins from their values being included in the average

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword*

Tree exclude-from-avg

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.

Context oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword*

Options

- forward
- backward
- round-trip

Configurable True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bins *string*

Description	Bin numbers excluded from the average calculation Results mapped to these bins do not impact the delay metric average values.
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword* bins *string*
Tree	bins
String Length	1 to 39
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A description of the bin group
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reference-count *number*

Description	The number of OAM-PM test sessions referencing the bin-group
Context	oam performance-monitoring ethcfm delay bin-group bin-group-name *string* reference-count *number*
Tree	reference-count
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-name *string*

Description	Enter the session list instance which contains the test session configuration
Context	oam performance-monitoring ethcfm session session-name *string*
Tree	session
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-name *string*

Description	The name of the OAM-PM session
Context	oam performance-monitoring ethcfm session session-name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A description of the OAM-PM session
Context	oam performance-monitoring ethcfm session session-name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

eth-cfm-single-ended-dmm-test

Description	Enter the eth-cfm-single-ended-dmm-test context

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Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test
Tree	eth-cfm-single-ended-dmm-test
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the single ended test
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-group *reference*

Description	Reference the bin group to be used for this session If not specified the 'default' bin-group will be used
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test bin-group *reference*
Tree	bin-group
Default	default
Reference	oam performance-monitoring ethcfm delay bin-group bin-group-name *string*
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bin-group-binning *keyword*

Description The current binning of delay metric values

A value 'active' means the bin-group being referenced by the test session has an admin-state 'enable'. A value 'inactive' means the bin-group being referenced by the test session has an admin-state 'disable'. When the value is 'inactive' test packets are being transmitted but there is no bin-group to bin the result and the delay results are discarded.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test bin-group-binning *keyword*

Tree bin-group-binning

Options
- active
- inactive

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-events bin-metric *keyword* direction *keyword*

Description A list of delay events for the measurement interval

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword*

Tree delay-events

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description Delay metric

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword*

Options
- fd
- fdr
- ifdv

Configurable False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword*

Options

- forward
- backward
- round-trip

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-tca-time *string*

Description UTC date and time at the start of the measurement interval which generated most recent raise or clear

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword* last-tca-time *string*

Tree last-tca-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mi-suspect-status *boolean*

Description Whether the Measurement Interval has been marked as suspect

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword* mi-suspect-status *boolean*

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Tree mi-suspect-status

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the Threshold Crossing Alerts (TCAs)

The conditions are evaluated in the order shown.

The value 'pending' is returned if the threshold configuration for the specified indices changed during the current measurement interval. The threshold configuration is evaluated in the next full measurement interval after the new configuration.

The value 'active' is returned if the specified indices have a no clear threshold configured (stateless), and the current measurement interval has generated a Raise TCA. The value is also returned if the specified indices have a clear threshold configured (stateful), and the most recent TCA generated was a Raise.

The value 'not-active' is returned for all other conditions (e.g., thresholding is not configured for the specified indices).

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword* oper-state *keyword*

Tree oper-state

Options

- pending
- active
- not-active

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-value-count *number*

Description Counter type metric value raising Threshold Crossing Alert (TCA)

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword* operational-value-count *number*

Tree operational-value-count

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tca-type *keyword*

Description	Dispositon of the tca 'stateful' or stateless
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test delay-events bin-metric *keyword* direction *keyword* tca-type *keyword*
Tree	tca-type
Options	• stateful • stateless
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detected-tx-error *keyword*

Description	Reason for the specified test session's current inability (if any) to launch request frames For example, 'eth-parent-admin-down(4)' could be returned for a test if the MEP to be tested is associated with a subinterface which is administratively down. Not all request frame transmit failures are detected by this mechanism. It is possible that the value 'none' will be returned when the test is unable to transmit frames during undetectable transmission errors.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test detected-tx-error *keyword*
Tree	detected-tx-error
Options	• none • port-down • no-tx-port • eth-parent-admin-down • eth-no-mep-or-admin-down • unexpected-error • network-instance-admin-down

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- network-instance-oper-down
- no-subinterface
- no-direct-subinterface
- source-ip-unavailable
- next-hop-ip-is-local
- dest-mac-resolve-fail
- mep-resource-in-use-by-sat

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *keyword*

Description The transmission rate of the CFM packets

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test interval *keyword*

Tree interval

Default 1s

Options

- 10ms
- 100ms
- 1s
- 10s

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-result mi-ro-type *keyword*

Description The test statistics for a delay measurement

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword*

Tree measurement-result

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mi-ro-type *keyword*

Description The duration of the measurement interval

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword*

Options

- 1-minute
- 5-minutes
- 15-minutes
- 1-hour
- 1-day
- raw

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description Enter the index list instance

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number*

Tree index

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Measurement interval unique identifier

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number*

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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elapsed-time *number*

Description Time elapsed since data collection started for the specified measurement interval

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* elapsed-time *number*

Tree elapsed-time

Default 0

Units seconds

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the specified measurement interval

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* oper-state *keyword*

Tree oper-state

Options

- in-progress
- completed

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description The time that the current measurement interval started

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-type bin-metric *keyword*

Description Enter the bin-type list instance

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword*

Tree bin-type

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description The identifier of a bin type within a bin group

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword*

Options

- fd
- fdr
- ifdv

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backward

Description	Enter the backward context
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward
Tree	backward
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average delay metric in the backward direction, from reflector to source This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward average *number*
Tree	average
Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay metric in the backward direction, from reflector to source This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward maximum *number*
Tree	maximum

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Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum delay metric in the backward direction, from reflector to source This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin bin-number *number*

Description	Enter the bin list instance
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number*
Tree	bin
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-number *number*

Description	The number of the bin
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number*
Range	0 to 9

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backward-measurements *number*

Description	Number of backward direction delay metric results within the bins range
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* backward-measurements *number*
Tree	backward-measurements
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-measurements *number*

Description	Number of forward direction delay metric results within the bins range
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* forward-measurements *number*
Tree	forward-measurements
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-measurements *number*

Description	Number of round trip direction delay metric results within the bins range
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* round-trip-measurements *number*

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Tree	round-trip-measurements
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward

Description	Enter the forward context
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward
Tree	forward
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average delay metric in the forward direction, from source to reflector This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward average *number*
Tree	average
Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay metric in the forward direction, from source to reflector This is for the specific direction, test session, interval duration, interval number, and bin type.

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Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum delay metric in the forward direction, from source to reflector This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip

Description	Enter the round-trip context
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip
Tree	round-trip
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average delay metric round trip, source computed based on four timestamps

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This is for the specific direction, test session, interval duration, interval number, and bin type.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip average *number*

Tree average

Units microseconds

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description Maximum delay metric round trip, source computed based on four timestamps

This is for the specific direction, test session, interval duration, interval number, and bin type.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip maximum *number*

Tree maximum

Units microseconds

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description Minimum delay metric round trip, source computed based on four timestamps

This is for the specific direction, test session, interval duration, interval number, and bin type.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip minimum *number*

Tree minimum

Units microseconds

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-received *number*

Description	Number of test frames received for the specified measurement interval
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics frames-received *number*
Tree	frames-received
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-transmitted *number*

Description	Number of test frames sent for the specified measurement interval
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics frames-transmitted *number*
Tree	frames-transmitted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nominal-frame-count *(number | keyword)*

Description	Number of test frames that comprise a completed measurement interval The value of this field is equal to the full length of the measurement-interval duration multiplied by the interval. This value is 'not-applicable to the 'raw' measurement-interval, as it is unbounded.
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* statistics nominal-frame-count *(number | keyword)*
Tree	nominal-frame-count

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Default	0
Options	• not-applicable
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suspect-status *boolean*

Description	Whether the Measurement Interval has been marked as suspect The object is to be set to 'false' at the start of a measurement interval. It is set to 'true' when there is a discontinuity in the performance measurements during the Measurement Interval. This flag is used to warn operators if the result count in the measurement interval is suboptimal for considering the results valid. Results are still collected, computed, and stored regardless of this flag. This is meant as a post processing notification to an external system. Conditions for a discontinuity include, but are not limited to the following: 1 - The local time-of-day clock is adjusted by at least 10 seconds 2 - The test is halted before the current Measurement Interval is completed 3 - A local test failure, or reconfiguration that disrupts testing
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* index index *number* suspect-status *boolean*
Tree	suspect-status
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

newest-index *number*

Description	The number of the newest measurement interval index for the specified session and test type
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test measurement-result mi-ro-type *keyword* newest-index *number*
Tree	newest-index
Configurable	False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Enter the oper-state context

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

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Component or process is currently waiting

This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-duration *number*

Description Duration of an OAM-PM session with a session-type on-demand

When this leaf is not specified the on-demand test will execute until manually stopped.

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test test-duration *number*

Tree test-duration

Range 1 to 86400

Units seconds

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-id *(number | keyword)*

Description Test ID of the test session

Test IDs are protocol specific. The same value may be re-used for different protocols but not for the same protocol. When the value 'auto' is configured the test-id is dynamically assigned from the upper 32-bit range, [2147483648..2247483647]

Context oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test test-id *(number | keyword)*

Tree test-id

Range 0 to 2147483647

Default auto

Options

- auto

Configurable True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-id-in-use *number*

Description	Test ID allocated to the test session
Context	oam performance-monitoring ethcfm session session-name *string* eth-cfm-single-ended-dmm-test test-id-in-use *number*
Tree	test-id-in-use
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class When value not specified, the sgt-qos value will be used
Context	oam performance-monitoring ethcfm session session-name *string* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-interval mi-duration *keyword*

Description	The list of measurement intervals associated with the OAM-PM session
Context	oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword*
Tree	measurement-interval
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

mi-duration *keyword*

Description	Configure the measurement interval duration The measurement interval duration defines the length of the sample window over which the statistics are collected, computed, and stored. The system automatically instantiates a 'raw' measurement interval for each defined test session. The 'raw' measurement interval is unbounded and continually accumulates measurements while the test session admin-state has value 'enable'. The 'raw' measurement interval can have result cleared to flush restart the accumulation of statistics.
Context	oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword*
Options	• 1-minute • 5-minutes • 15-minutes • 1-hour • 1-day
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boundary-type *keyword*

Description	Aligning the start of the measurement interval A value 'clock-aligned' aligns the start and end of the sample window with the time-of-day clock. A value 'test-aligned' aligns the sample window with the start of the test session.
Context	oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* boundary-type *keyword*
Tree	boundary-type
Default	clock-aligned
Options	• clock-aligned • test-relative

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-offset *number*

Description	Aligning the measurement interval using an offset for the start, considering the boundary-type The clock-offset must be '0' when the boundary-type value is not 'clock-aligned'. When the boundary-type is 'clock-aligned' the value of the clock-offset must be less than the duration of the measurement-interval
Context	oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* clock-offset *number*
Tree	clock-offset
Range	0 to 86399
Default	0
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

intervals-stored *number*

Description	The number of completed measurement intervals stored in volatile memory before overwriting oldest The more intervals stored the more memory will be consumed. The values vary per measurement interval duration. 1-minute default 32 maximum 96 5-minutes default 32 maximum 96 15-minutes default 32 maximum 96 1-hour default 8 maximum 24 1-day default 1 maximum 1 The total of 1-minute, plus 5-minutes, plus 15-minutes cannot exceed 96. That is a shared pool between those measurement intervals.
Context	oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* intervals-stored *number*
Tree	intervals-stored
Range	1 to 96
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold-alerts

Description Enter the threshold-alerts context

Enabling configured events for the measurement interval

Context oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts

Tree threshold-alerts

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-event *keyword*

Description Enable the delay events associated with the bin group assigned to this test session for this measurement interval

Context oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts delay-event *keyword*

Tree delay-event

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-event *keyword*

Description Enable the loss events associated with the loss test session for this measurement interval

Context oam performance-monitoring ethcfm session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts loss-event *keyword*

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Tree loss-event

Default disable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description The priority used when generating CFM test frames

Context oam performance-monitoring ethcfm session session-name *string* priority *number*

Tree priority

Range 0 to 7

Default 7

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

profile *keyword*

Description The profile or drop precedence

When value not specified, the sgt-qos value will be used

Context oam performance-monitoring ethcfm session session-name *string* profile *keyword*

Tree profile

Options
- in

  The second level priority profile
- out

  The lowest level priotity profile
- exceed

  The third level priority profile
- in-plus

  The highest priority profile

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-type *keyword*

Description	Session scheduling type for the test sessions configured under this OAM-PM session A value 'proactive' means the protocol specific test session will be always on when admin-state is 'enable'. A value 'on-demand' requires the tools start command to be issued for test session with admin-state 'enable'
Context	oam performance-monitoring ethcfm session session-name *string* session-type *keyword*
Tree	session-type
Default	proactive
Options	• proactive • on-demand
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description	Enter the source context
Context	oam performance-monitoring ethcfm session session-name *string* source
Tree	source
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *reference*

Description	The maintenance association identifier specific to the domain identifier

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Context	oam performance-monitoring ethcfm session session-name *string* source association-id *reference*
Tree	association-id
Reference	oam ethcfm domain domain-id *string* association association-id *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *reference*

Description	The maintenance domain identifier
Context	oam performance-monitoring ethcfm session session-name *string* source domain-id *reference*
Tree	domain-id
Reference	oam ethcfm domain domain-id *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *reference*

Description	The MEP identifier specific to the domain and association identifier
Context	oam performance-monitoring ethcfm session session-name *string* source mep-id *reference*
Tree	mep-id
Reference	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target *(unicast-mac-address | number)*

Description	Target MAC address or remote MEP ID for the test
Context	oam performance-monitoring ethcfm session session-name *string* target *(unicast-mac-address | number)*

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Tree	target
Range	1 to 8191
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-count-total *number*

Description	Total number of configured tests regardless of 'admin-state'
Context	oam performance-monitoring ethcfm test-count-total *number*
Tree	test-count-total
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip

Description	Enable the ip context
Context	oam performance-monitoring ip
Tree	ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay

Description	Enter the delay context
Context	oam performance-monitoring ip delay
Tree	delay
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bin-group bin-group-name *string*

Description	Enter the bin-group list instance
Context	oam performance-monitoring ip delay bin-group bin-group-name *string*
Tree	bin-group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-group-name *string*

Description	The name of the bin group Each performance monitoring session requires a bin-group references. The bin-group includes information on how the delay information is binned and any threshold or exclusion functions. Each performance monitoring session references the bin-group 'default'. The 'default' bin-group is created by the system. Its purpose is to reduce the configuration when the binning of information is not a key requirement for the performance monitoring session. It contains basic values. The bin-type parameters cannot be modified. The following bin-type and lower-bound values are assigned to the bin-group 'default'. These values are microseconds. bin-type fd bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 } bin 2 { lower-bound 10000 } bin-type fdr bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 } bin-type ifdv bin 0 { lower-bound 0 } bin 1 { lower-bound 5000 } The bin-group 'default' can be entered in the configuration. It must include the admin-state 'enable'. If entered in the configuration it cannot be deleted if any performance monitoring session is referencing it. The information for the bin-group 'default' is available in state.
Context	oam performance-monitoring ip delay bin-group bin-group-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the bin group
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* admin-state *keyword*

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Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-type bin-metric *keyword*

Description	Enter the bin-type list instance
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword*
Tree	bin-type
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description	Enter the bin-type list instance
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword*
Options	• fd • fdr • ifdv
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin bin-number *number*

Description	Enter the bin number list instance
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number*

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Tree	bin
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-number *number*

Description	The number of the bin The bin values must be contiguous. Space cannot be left between numerical values. If no lower-bound is configured for a bin the default lower-bound will be 1000 microseconds multiplied by the bin number. If this value conflicts with a lower bin number lower-bound value the configuration of an appropriate lower-bound number for the bin must be configured in the same transaction as the addition of the bin to the bin-group.
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number*
Range	0 to 9
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lower-bound *number*

Description	Lower bound for the bin The lower-bound value between two adjacent bins represents the range of results that will be mapped to the bin. The lower-bound value for the bin represents the smallest value in the range. The lower-bound value of the adjacent higher bin represents the smallest value in its range. Bin 0 must have a lower-bound value of '0'. Bin numbers must not have conflicting lower-bound values. Higher bin numbers must not have lower-bound values less than any lower bin number.
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* bin bin-number *number* lower-bound *number*
Tree	lower-bound
Range	0 | 1 to 4294967295
Units	microseconds
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-event direction *keyword*

Description	Enter the delay-event list instance
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword*
Tree	delay-event
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement of interest A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword*
Options	• forward • backward • round-trip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description	The not be exceeded value used to clear a previously triggered threshold crossing alarm Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement

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interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

A value '0' means a subsequent measurement interval must have no results in the bins counted against the threshold.

Context oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* clear-threshold *number*

Tree clear-threshold

Range 0 to 863999

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-lowest-bin *number*

Description Lowest bin excluded from the threshold crossing alarm count

This bin must be higher than the ../lowest-bin, which is used to specify which bins to consider for threshold crossing alarms. If the configured bin number does not exist then this leaf have no effect.

Context oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* exclude-lowest-bin *number*

Tree exclude-lowest-bin

Range 1 to 9

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lowest-bin *number*

Description The lowest bin number to include when comparing counts to thresholds

The number of results in this bin and all higher bins are compared to the configured thresholds. If the configured bin number does not exist then no threshold will be trigger.

Context oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* lowest-bin *number*

Tree lowest-bin

Range 0 to 9

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description	Raise threshold count for excessive delay A threshold crossing alarm is raised when the raise-threshold value is reached. The raise threshold is compared to the number of results the ../lowest-bin and all higher, excluding any results that would be excluded by the ../exclude-lowest-bin.
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* delay-event direction *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-from-avg direction *keyword*

Description	Enter the exclude-from-avg list instance used to exclude specified bins from their values being included in the average
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword*
Tree	exclude-from-avg
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.

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Context oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword*

Options
- forward
- backward
- round-trip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bins *string*

Description Bin numbers excluded from the average calculation

Results mapped to these bins do not impact the delay metric average values.

Context oam performance-monitoring ip delay bin-group bin-group-name *string* bin-type bin-metric *keyword* exclude-from-avg direction *keyword* bins *string*

Tree bins

String Length 1 to 39

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description A description of the bin group

Context oam performance-monitoring ip delay bin-group bin-group-name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reference-count *number*

Description	The number of OAM-PM test sessions referencing the bin-group
Context	oam performance-monitoring ip delay bin-group bin-group-name *string* reference-count *number*
Tree	reference-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss

Description	Enter the loss context
Context	oam performance-monitoring ip loss
Tree	loss
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-events-template loss-events-template-name *string*

Description	The delay-template list instance
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string*
Tree	loss-events-template
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	255

loss-events-template-name *string*

Description	A description of the template
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string*

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String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

avg-flr-event direction *keyword*

Description	Enter the avg-flr-event list instance
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* avg-flr-event direction *keyword*
Tree	avg-flr-event
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement of interest A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source.
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* avg-flr-event direction *keyword*
Options	• forward • backward
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *decimal-number*

Description	The value used to clear a previously triggered Frame Loss Ratio alarm Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement

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interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* avg-flr-event direction *keyword* clear-threshold *decimal-number*

Tree clear-threshold

Range 0.000 to 99.999

Units percent

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *decimal-number*

Description Raise threshold for the average Frame Loss Ratio

This event is computed and considered at the completion of the measurement interval.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* avg-flr-event direction *keyword* raise-threshold *decimal-number*

Tree raise-threshold

Range 0.001 to 100.000

Units percent

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chli-event direction *keyword*

Description Enter the Consecutive High Loss Interval list instance

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* chli-event direction *keyword*

Tree chli-event

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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direction *keyword*

Description The direction of the measurement of interest

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* chli-event direction *keyword*

Options

- forward
- backward
- aggregate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description The value used to clear a previously triggered alarm for the metric of interest

Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* chli-event direction *keyword* clear-threshold *number*

Tree clear-threshold

Range 0 to 863999

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description Raise threshold for the metric of interest

This event is computed and considered during the measurement interval.

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Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* chli-event direction *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A description of the loss template
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hli-event direction *keyword*

Description	Enter the High Loss Interval list instance
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* hli-event direction *keyword*
Tree	hli-event
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement of interest A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.

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Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* hli-event direction *keyword*

Options
- forward
- backward
- aggregate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description The value used to clear a previously triggered alarm for the metric of interest

Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* hli-event direction *keyword* clear-threshold *number*

Tree clear-threshold

Range 0 to 863999

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description Raise threshold for the metric of interest

This event is computed and considered during the measurement interval.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* hli-event direction *keyword* raise-threshold *number*

Tree raise-threshold

Range 1 to 864000

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reference-count *number*

Description	The number of OAM-PM test sessions referencing the loss template
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* reference-count *number*
Tree	reference-count
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unavailability-event direction *keyword*

Description	Enter the unavailability-event list instance
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* unavailability-event direction *keyword*
Tree	unavailability-event
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement of interest A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* unavailability-event direction *keyword*
Options	• forward • backward • aggregate
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description	The value used to clear a previously triggered alarm for the metric of interest Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* unavailability-event direction *keyword* clear-threshold *number*
Tree	clear-threshold
Range	0 to 863999
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description	Raise threshold for the metric of interest This event is computed and considered during the measurement interval.
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* unavailability-event direction *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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undetermined-availability-event direction *keyword*

Description Enter the undetermined availability event list instance

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-availability-event direction *keyword*

Tree undetermined-availability-event

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement of interest

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-availability-event direction *keyword*

Options

- forward
- backward
- aggregate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description The value used to clear a previously triggered alarm for the metric of interest

Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-availability-event direction *keyword* clear-threshold *number*

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Tree	clear-threshold
Range	0 to 863999
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description	Raise threshold for the metric of interest This event is computed and considered during the measurement interval.
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-availability-event direction *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undetermined-unavailability-event direction *keyword*

Description	Enter the undetermined unavailability event list instance
Context	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-unavailability-event direction *keyword*
Tree	undetermined-unavailability-event
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of the measurement of interest A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.

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Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-unavailability-event direction *keyword*

Options
- forward
- backward
- aggregate

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-threshold *number*

Description The value used to clear a previously triggered alarm for the metric of interest

Two type of threshold crossing alarms; Stateless and Stateful. When the clear-threshold is not specified the type = stateless. Stateless alarms are not maintained across measurement interval boundaries. Each measurement interval is self-contained. When a clear-threshold is configured the type = stateful. Stateful alarms are maintained across measurement interval boundaries and cleared when a subsequent measurement interval completes and meets the clear threshold criteria.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-unavailability-event direction *keyword* clear-threshold *number*

Tree clear-threshold

Range 0 to 863999

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

raise-threshold *number*

Description Raise threshold for the metric of interest

This event is computed and considered during the measurement interval.

Context oam performance-monitoring ip loss loss-events-template loss-events-template-name *string* undetermined-unavailability-event direction *keyword* raise-threshold *number*

Tree raise-threshold

Range 1 to 864000

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-name *string*

Description	Enter the session list instance which contains the test session configuration
Context	oam performance-monitoring ip session session-name *string*
Tree	session
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-name *string*

Description	The name of the OAM-PM session
Context	oam performance-monitoring ip session session-name *string*
String Length	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	A description of the OAM-PM session
Context	oam performance-monitoring ip session session-name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description	Destination IP address for the IP test session

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Context	oam performance-monitoring ip session session-name *string* destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-udp-port *number*

Description	Destination UDP port for the test session This must match the UDP listening port on the Session Reflector.
Context	oam performance-monitoring ip session session-name *string* destination-udp-port *number*
Tree	destination-udp-port
Range	1 to 65535
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *(number | keyword)*

Description	DSCP used in IP header of the STAMP PDU
Context	oam performance-monitoring ip session session-name *string* dscp *(number | keyword)*
Tree	dscp
Range	0 to 63
Default	CS6
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22

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- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding

Description Control the local forwarding decision on the source

Context oam performance-monitoring ip session session-name *string* forwarding

Tree forwarding

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description Enter the interface-ref context

Context oam performance-monitoring ip session session-name *string* forwarding interface-ref

Tree interface-ref

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface *reference*

Description	Reference to a base interface, for example a port
Context	oam performance-monitoring ip session session-name *string* forwarding interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description	Subinterface to send the test packet The subinterface mut be a valid route to reach the destination
Context	oam performance-monitoring ip session session-name *string* forwarding interface-ref subinterface *reference*
Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(ipv4-address | ipv6-address)*

Description	IP address of the next hop The next hop must have a valid route in the route-table of the network instance.
Context	oam performance-monitoring ip session session-name *string* forwarding next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-class *reference*

Description	The forwarding class When value not specified, the sgt-qos value will be used
Context	oam performance-monitoring ip session session-name *string* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-interval mi-duration *keyword*

Description	The list of measurement intervals associated with the OAM-PM session
Context	oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword*
Tree	measurement-interval
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

mi-duration *keyword*

Description	Configure the measurement interval duration The measurement interval duration defines the length of the sample window over which the statistics are collected, computed, and stored. The system automatically instantiates a 'raw' measurement interval for each defined test session. The 'raw' measurement interval is unbounded and continually accumulates measurements while the test session admin-state has value 'enable'. The 'raw' measurement interval can have result cleared to flush restart the accumulation of statistics.

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Context oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword*

Options
- 1-minute
- 5-minutes
- 15-minutes
- 1-hour
- 1-day

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boundary-type *keyword*

Description Aligning the start of the measurement interval

A value 'clock-aligned' aligns the start and end of the sample window with the time-of-day clock. A value 'test-aligned' aligns the sample window with the start of the test session.

Context oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* boundary-type *keyword*

Tree boundary-type

Default clock-aligned

Options
- clock-aligned
- test-relative

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-offset *number*

Description Aligning the measurement interval using an offset for the start, considering the boundary-type

The clock-offset must be '0' when the boundary-type value is not 'clock-aligned'. When the boundary-type is 'clock-aligned' the value of the clock-offset must be less than the duration of the measurement-interval

Context oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* clock-offset *number*

Tree clock-offset

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Range	0 to 86399
Default	0
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

intervals-stored *number*

Description	The number of completed measurement intervals stored in volatile memory before overwriting oldest The more intervals stored the more memory will be consumed. The values vary per measurement interval duration. 1-minute default 32 maximum 96 5-minutes default 32 maximum 96 15-minutes default 32 maximum 96 1-hour default 8 maximum 24 1-day default 1 maximum 1 The total of 1-minute, plus 5-minutes, plus 15-minutes cannot exceed 96. That is a shared pool between those measurement intervals.
Context	oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* intervals-stored *number*
Tree	intervals-stored
Range	1 to 96
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold-alerts

Description	Enter the threshold-alerts context Enabling configured events for the measurement interval
Context	oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts
Tree	threshold-alerts
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delay-event *keyword*

Description Enable the delay events associated with the bin group assigned to this test session for this measurement interval

Context oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts delay-event *keyword*

Tree delay-event

Default disable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-event *keyword*

Description Enable the loss events associated with the loss test session for this measurement interval

Context oam performance-monitoring ip session session-name *string* measurement-interval mi-duration *keyword* threshold-alerts loss-event *keyword*

Tree loss-event

Default disable

Options
- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description The name of the network instance specific to this test session

Context oam performance-monitoring ip session session-name *string* network-instance *reference*

Tree network-instance

Reference network-instance name *string*

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

profile *keyword*

Description The profile or drop precedence

When value not specified, the sgt-qos value will be used

Context oam performance-monitoring ip session session-name *string* profile *keyword*

Tree profile

Options

- in

  The second level priority profile
- out

  The lowest level priotity profile
- exceed

  The third level priority profile
- in-plus

  The highest priority profile

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-type *keyword*

Description Session scheduling type for the test sessions configured under this OAM-PM session

A value 'proactive' means the protocol specific test session will be always on when admin-state is 'enable'. A value 'on-demand' requires the tools start command to be issued for test session with admin-state 'enable'

Context oam performance-monitoring ip session session-name *string* session-type *keyword*

Tree session-type

Default proactive

Options

- proactive

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- on-demand

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description Source IPv4 or IPv6 IP address to be used as the source address of the packet

Context oam performance-monitoring ip session session-name *string* source-ip *(ipv4-address | ipv6-address)*

Tree source-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-udp-port *number*

Description Automatically allocate or statically configure the source UDP port for oam pm ip

The value 0 will automatically select an available source UDP port from the dynamic range. When selecting a source UDP port from the from the reserved STAMP pool [64374..64383] that port must be administratively assigned to the STAMP application attempting to use it. Once a UDP port in this range is assigned to one application it cannot be used by the other application. When a test has been configured to use one of UDP ports from the reserved STAMP pool the application-assignment of that UDP port cannot be modified.

Allocation of these UDP ports can be found at srl_nokia-udp-source-pool.yang model (path oam ippm source-udp-pools).

Context oam performance-monitoring ip session session-name *string* source-udp-port *number*

Tree source-udp-port

Range 0 | 64374 to 64383

Default 0

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-udp-port-in-use *number*

Description Source UDP port used in the packet

Context oam performance-monitoring ip session session-name *string* source-udp-port-in-use *number*

Tree source-udp-port-in-use

Range 0 to 65535

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp

Description Enter the stamp context

Context oam performance-monitoring ip session session-name *string* stamp

Tree stamp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of the STAMP test session

Context oam performance-monitoring ip session session-name *string* stamp admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delay

Description Enter the delay context

Context oam performance-monitoring ip session session-name *string* stamp delay

Tree delay

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-group *reference*

Description Reference the bin group to be used for this session. If not specified the 'default' bin-group will be used

Context oam performance-monitoring ip session session-name *string* stamp delay bin-group *reference*

Tree bin-group

Default default

Reference oam performance-monitoring ip delay bin-group bin-group-name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-group-binning *keyword*

Description The current binning of delay metric values

A value 'active' means the bin-group being referenced by the test session has an admin-state 'enable'. A value 'inactive' means the bin-group being referenced by the test session has an admin-state 'disable'. When the value is 'inactive' test packets are being transmitted but there is no bin-group to bin the result and the delay results are discarded.

Context oam performance-monitoring ip session session-name *string* stamp delay bin-group-binning *keyword*

Tree bin-group-binning

Options

- active
- inactive

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-events bin-metric *keyword* direction *keyword*

Description A list of delay events for the measurement interval

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword*

Tree delay-events

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description Delay metric

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword*

Options

- fd
- fdr
- ifdv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'round-trip' is the measurement of the complete path using four timestamps.

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword*

Options

- forward
- backward
- round-trip

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-tca-time *string*

Description	UTC date and time at the start of the measurement interval which generated most recent raise or clear
Context	oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword* last-tca-time *string*
Tree	last-tca-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mi-suspect-status *boolean*

Description	Whether the Measurement Interval has been marked as suspect
Context	oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword* mi-suspect-status *boolean*
Tree	mi-suspect-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of the Threshold Crossing Alerts (TCAs) The conditions are evaluated in the order shown. The value 'pending' is returned if the threshold configuration for the specified indices changed during the current measurement interval. The threshold configuration is evaluated in the next full measurement interval after the new configuration. The value 'active' is returned if the specified indices have a no clear threshold configured (stateless), and the current measurement interval has generated a Raise TCA. The value is also returned if the specified

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indices have a clear threshold configured (stateful), and the most recent TCA generated was a Raise.

The value 'not-active' is returned for all other conditions (e.g., thresholding is not configured for the specified indices).

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword* oper-state *keyword*

Tree oper-state

Options
- pending
- active
- not-active

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-value-count *number*

Description Counter type metric value raising Threshold Crossing Alert (TCA)

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword* operational-value-count *number*

Tree operational-value-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tca-type *keyword*

Description Dispossiton of the tca 'stateful' or stateless

Context oam performance-monitoring ip session session-name *string* stamp delay delay-events bin-metric *keyword* direction *keyword* tca-type *keyword*

Tree tca-type

Options
- stateful
- stateless

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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measurement-result mi-ro-type *keyword*

Description The test statistics for a delay measurement

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword*

Tree measurement-result

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mi-ro-type *keyword*

Description The duration of the measurement interval

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword*

Options

- 1-minute
- 5-minutes
- 15-minutes
- 1-hour
- 1-day
- raw

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description Enter the index list instance

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number*

Tree index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description Measurement interval unique identifier

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

elapsed-time *number*

Description Time elapsed since data collection started for the specified measurement interval

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* elapsed-time *number*

Tree elapsed-time

Default 0

Units seconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the specified measurement interval

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* oper-state *keyword*

Tree oper-state

Options

- in-progress
- completed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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start-time *string*

Description	The time that the current measurement interval started
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-type bin-metric *keyword*

Description	Enter the bin-type list instance
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword*
Tree	bin-type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-metric *keyword*

Description	The identifier of a bin type within a bin group

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Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword*

Options
- fd
- fdr
- ifdv

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backward

Description Enter the backward context

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward

Tree backward

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Average delay metric in the backward direction, from reflector to source

This is for the specific direction, test session, interval duration, interval number, and bin type.

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward average *number*

Tree average

Units microseconds

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum *number*

Description	Maximum delay metric in the backward direction, from reflector to source This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum delay metric in the backward direction, from reflector to source This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* backward minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin bin-number *number*

Description	Enter the bin list instance
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number*
Tree	bin
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bin-number *number*

Description	The number of the bin
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number*
Range	0 to 9
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

backward-measurements *number*

Description	Number of backward direction delay metric results within the bins range
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* backward-measurements *number*
Tree	backward-measurements
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward-measurements *number*

Description	Number of forward direction delay metric results within the bins range
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* forward-measurements *number*
Tree	forward-measurements
Default	0
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip-measurements *number*

Description Number of round trip direction delay metric results within the bins range

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* bin bin-number *number* round-trip-measurements *number*

Tree round-trip-measurements

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward

Description Enter the forward context

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward

Tree forward

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description Average delay metric in the forward direction, from source to reflector

This is for the specific direction, test session, interval duration, interval number, and bin type.

Context oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward average *number*

Tree average

Units microseconds

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay metric in the forward direction, from source to reflector This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum *number*

Description	Minimum delay metric in the forward direction, from source to reflector This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* forward minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

round-trip

Description	Enter the round-trip context

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Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip
Tree	round-trip
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average *number*

Description	Average delay metric round trip, source computed based on four timestamps This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip average *number*
Tree	average
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum *number*

Description	Maximum delay metric round trip, source computed based on four timestamps This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip maximum *number*
Tree	maximum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minimum *number*

Description	Minimum delay metric round trip, source computed based on four timestamps This is for the specific direction, test session, interval duration, interval number, and bin type.
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics bin-type bin-metric *keyword* round-trip minimum *number*
Tree	minimum
Units	microseconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-received *number*

Description	Number of test frames received for the specified measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics frames-received *number*
Tree	frames-received
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-transmitted *number*

Description	Number of test frames sent for the specified measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* statistics frames-transmitted *number*
Tree	frames-transmitted
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suspect-status *boolean*

Description	Whether the Measurement Interval has been marked as suspect The object is to be set to 'false' at the start of a measurement interval. It is set to 'true' when there is a discontinuity in the performance measurements during the Measurement Interval. This flag is used to warn operators if the result count in the measurement interval is suboptimal for considering the results valid. Results are still collected, computed, and stored regardless of this flag. This is meant as a post processing notification to an external system. Conditions for a discontinuity include, but are not limited to the following: 1 - The local time-of-day clock is adjusted by at least 10 seconds 2 - The test is halted before the current Measurement Interval is completed 3 - A local test failure, or reconfiguration that disrupts testing
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* index index *number* suspect-status *boolean*
Tree	suspect-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

newest-index *number*

Description	The number of the newest measurement interval index for the specified session and test type
Context	oam performance-monitoring ip session session-name *string* stamp delay measurement-result mi-ro-type *keyword* newest-index *number*
Tree	newest-index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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detected-tx-error *keyword*

Description Reason for the specified test session's current inability (if any) to launch request frames

For example, 'eth-parent-admin-down(4)' could be returned for a test if the MEP to be tested is associated with a subinterface which is administratively down.

Not all request frame transmit failures are detected by this mechanism. It is possible that the value 'none' will be returned when the test is unable to transmit frames during undetectable transmission errors.

Context oam performance-monitoring ip session session-name *string* stamp detected-tx-error *keyword*

Tree detected-tx-error

Options

- none
- port-down
- no-tx-port
- eth-parent-admin-down
- eth-no-mep-or-admin-down
- unexpected-error
- network-instance-admin-down
- network-instance-oper-down
- no-subinterface
- no-direct-subinterface
- source-ip-unavailable
- next-hop-ip-is-local
- dest-mac-resolve-fail
- mep-resource-in-use-by-sat

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *keyword*

Description The transmission rate of the STAMP packets

Context oam performance-monitoring ip session session-name *string* stamp interval *keyword*

Tree interval

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Default 1s

Options
- 50ms
- 100ms
- 200ms
- 300ms
- 400ms
- 500ms
- 600ms
- 700ms
- 800ms
- 900ms
- 1s
- 10s

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss

Description Enter the loss context

Context oam performance-monitoring ip session session-name *string* stamp loss

Tree loss

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

flr-threshold *number*

Description Frame Loss Ratio (FLR) is a percentage applied to the frame loss within a delta-t

If the FLR is not reached the delta-t is not considered a High Loss Interval. If the FLR is reach the delta-t is considered a High Loss Interval.

Context oam performance-monitoring ip session session-name *string* stamp loss flr-threshold *number*

Tree flr-threshold

Range 0 to 100

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Default	50
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hli-force-count *boolean*

Description	Increment High Loss Interval and Consecutive High Loss Interval counters regardless of unavailability A value 'false' will not increment the HLI/CHLI counters during times of unavailability. A value 'true' will increment the HLI/CHLI counters during times of unavailability.
Context	oam performance-monitoring ip session session-name *string* stamp loss hli-force-count *boolean*
Tree	hli-force-count
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-event *reference*

Description	The loss event template associated with this loss test session and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss loss-event *reference*
Tree	loss-event
Reference	oam performance-monitoring ip loss loss-events-template loss-events-template-name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-events loss-metric *keyword* direction *keyword*

Description	Enter the loss events list instance

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Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword*

Tree loss-events

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-metric *keyword*

Description Loss metric

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword*

Options

- average-flr
- chli
- hli
- unavailability
- undetermined-availability
- undetermined-unavailability

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of the measurement of interest

A value 'forward' is the measurement from source to reflector. A value 'backward' is the measurement from reflector to source. A value 'aggregate' sums the forward and backward counts into an aggregate.

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword*

Options

- forward
- backward
- aggregate

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-tca-time *string*

Description	UTC date and time at the start of the measurement interval which generated most recent raise or clear
Context	oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* last-tca-time *string*
Tree	last-tca-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mi-suspect-status *boolean*

Description	Whether the Measurement Interval has been marked as suspect
Context	oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* mi-suspect-status *boolean*
Tree	mi-suspect-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of the Threshold Crossing Alerts (TCAs) for the specified session The conditions are evaluated in the order shown. The value 'pending' is returned if the threshold configuration for the specified indices changed during the current measurement interval. The value 'active' is returned if the specified indices have a default clear threshold configured, and the current measurement interval has generated a Raise TCA. The value is also returned if the specified indices have a non-default clear threshold configured, and the most recent TCA generated was a Raise.

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The value 'not-active' is returned for all other conditions (e.g. thresholding is not configured for the specified indices).

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* oper-state *keyword*

Tree oper-state

Options
- pending
- active
- not-active

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-value-count *number*

Description Counter type metric value raising Threshold Crossing Alert (TCA).

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* operational-value-count *number*

Tree operational-value-count

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-value-percentage *decimal-number*

Description Percentage type metric value raising Threshold Crossing Alert (TCA).

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* operational-value-percentage *decimal-number*

Tree operational-value-percentage

Range 0.001 to 100.000

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tca-type *keyword*

Description Dispossiton of the tca 'stateful' or stateless

Context oam performance-monitoring ip session session-name *string* stamp loss loss-events loss-metric *keyword* direction *keyword* tca-type *keyword*

Tree tca-type

Options

- stateful
- stateless

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measurement-result mi-ro-type *keyword*

Description The test statistics for a delay measurement

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword*

Tree measurement-result

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mi-ro-type *keyword*

Description The duration of the measurement interval

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword*

Options

- 1-minute
- 5-minutes
- 15-minutes
- 1-hour
- 1-day
- raw

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index index *number*

Description	Enter the index list instance
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number*
Tree	index
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Interval identifier.
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number*
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

elapsed-time *number*

Description	Time elapsed since data collection started for the specified measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* elapsed-time *number*
Tree	elapsed-time
Default	0
Units	seconds
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Operational state of the specified measurement interval

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* oper-state *keyword*

Tree oper-state

Options

- in-progress
- completed

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description The time that the current measurement interval started

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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backward

Description Enter the backward context

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward

Tree backward

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available *number*

Description Number of availability indicators evaluated as Available for the specified direction and measurement interval

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward available *number*

Tree available

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average-frame-loss-ratio *number*

Description Average Frame Loss Ratio (FLR) for the specified direction and measurement interval

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward average-frame-loss-ratio *number*

Tree average-frame-loss-ratio

Units millipercent

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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consecutive-high-loss-intervals *number*

Description	Number of Consecutive High Loss Intervals (CHLIs) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward consecutive-high-loss-intervals *number*
Tree	consecutive-high-loss-intervals
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-loss-intervals *number*

Description	Number of High Loss Intervals (HLIs) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward high-loss-intervals *number*
Tree	high-loss-intervals
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-loss *number*

Description	Loss in the backward direction The difference between the received packets on the session-sender and the packets sent from the session-reflector.
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward in-loss *number*
Tree	in-loss
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-frame-loss-ratio *number*

Description	Maximum Frame Loss Ratio (FLR) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward maximum-frame-loss-ratio *number*
Tree	maximum-frame-loss-ratio
Units	millipercent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-frame-loss-ratio *number*

Description	Minimum Frame Loss Ratio (FLR) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward minimum-frame-loss-ratio *number*
Tree	minimum-frame-loss-ratio
Units	millipercent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unavailable *number*

Description	Number of availability indicators evaluated as Unavailable for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward unavailable *number*
Tree	unavailable

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Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undetermined-available *number*

Description	Number of availability indicators evaluated as Available for the specified direction and measurement interval, based on extrapolation Undetermined counters are incremented when there is no explicit understanding why a response packet was not received. This will occur during a complete failure where no responses are received on the source and the source must time out those missing responses. This counter will increment when the availability window has been reached plus an additional five second timeout. Previous state must be maintained but the appropriate undetermined counter will increment by the equal value. This value should be used to adjust the availability counter if the reason was packet loss and not an administrative function that caused the condition.
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward undetermined-available *number*
Tree	undetermined-available
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undetermined-unavailable *number*

Description	Number of availability indicators evaluated as Unavailable for the specified direction and measurement interval, based on extrapolation Undetermined counters are incremented when there is no explicit understanding why a response packet was not received. This will occur during a complete failure where no responses are received on the source and the source must time out those missing responses. This counter will increment when the availability window has been reached plus an additional five second timeout. Previous state must be maintained but the appropriate undetermined counter will increment by the equal value. This value should not be used to adjust the unavailability counter if the reason was packet loss and not an administrative function that caused the condition.

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Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics backward undetermined-unavailable *number*
Tree	undetermined-unavailable
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forward

Description	Enter the forward context
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward
Tree	forward
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

available *number*

Description	Number of availability indicators evaluated as Available for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward available *number*
Tree	available
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average-frame-loss-ratio *number*

Description	Average Frame Loss Ratio (FLR) for the specified direction and measurement interval

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Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward average-frame-loss-ratio *number*
Tree	average-frame-loss-ratio
Units	millipercent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

consecutive-high-loss-intervals *number*

Description	Number of Consecutive High Loss Intervals (CHLIs) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward consecutive-high-loss-intervals *number*
Tree	consecutive-high-loss-intervals
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-loss-intervals *number*

Description	Number of High Loss Intervals (HLIs) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward high-loss-intervals *number*
Tree	high-loss-intervals
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-frame-loss-ratio *number*

Description	Maximum Frame Loss Ratio (FLR) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward maximum-frame-loss-ratio *number*
Tree	maximum-frame-loss-ratio
Units	millipercent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-frame-loss-ratio *number*

Description	Minimum Frame Loss Ratio (FLR) for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward minimum-frame-loss-ratio *number*
Tree	minimum-frame-loss-ratio
Units	millipercent
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-loss *number*

Description	Loss in the forward direction The difference between the received packets on the session-reflector and the packets sent from the session-sender.
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward out-loss *number*
Tree	out-loss
Default	0
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unavailable *number*

Description	Number of availability indicators evaluated as Unavailable for the specified direction and measurement interval
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward unavailable *number*
Tree	unavailable
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

undetermined-available *number*

Description	Number of availability indicators evaluated as Available for the specified direction and measurement interval, based on extrapolation Undetermined counters are incremented when there is no explicit understanding why a response packet was not received. This will occur during a complete failure where no responses are received on the source and the source must time out those missing responses. This counter will increment when the availability window has been reached plus an additional five second timeout. Previous state must be maintained but the appropriate undetermined counter will increment by the equal value. This value should be used to adjust the availability counter if the reason was packet loss and not an administrative function that caused the condition.
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward undetermined-available *number*
Tree	undetermined-available
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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undetermined-unavailable *number*

Description Number of availability indicators evaluated as Unavailable for the specified direction and measurement interval, based on extrapolation

Undetermined counters are incremented when there is no explicit understanding why a response packet was not received. This will occur during a complete failure where no responses are received on the source and the source must time out those missing responses. This counter will increment when the availability window has been reached plus an additional five second timeout. Previous state must be maintained but the appropriate undetermined counter will increment by the equal value. This value should not be used to adjust the unavailability counter if the reason was packet loss and not an administrative function that caused the condition.

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics forward undetermined-unavailable *number*

Tree undetermined-unavailable

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-received *number*

Description Number of test session frames received for the specified direction and measurement interval

Context oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics frames-received *number*

Tree frames-received

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-transmitted *number*

Description Number of test session frames transmitted for the specified direction and measurement interval

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Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* statistics frames-transmitted *number*
Tree	frames-transmitted
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suspect-status *boolean*

Description	Whether the Measurement Interval has been marked as suspect The object is to be set to 'false' at the start of a measurement interval. It is set to 'true' when there is a discontinuity in the performance measurements during the Measurement Interval. This flag is used to warn operators if the result count in the measurement interval is suboptimal for considering the results valid. Results are still collected, computed, and stored regardless of this flag. This is meant as a post processing notification to an external system. Conditions for a discontinuity include, but are not limited to the following: 1 - The local time-of-day clock is adjusted by at least 10 seconds 2 - The test is halted before the current Measurement Interval is completed 3 - A local test failure, or reconfiguration that disrupts testing
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* index index *number* suspect-status *boolean*
Tree	suspect-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

newest-index *number*

Description	The number of the newest measurement interval index for the specified session and test type
Context	oam performance-monitoring ip session session-name *string* stamp loss measurement-result mi-ro-type *keyword* newest-index *number*
Tree	newest-index
Configurable	False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timing

Description Enter the timing context

Context oam performance-monitoring ip session session-name *string* stamp loss timing

Tree timing

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chli-threshold *number*

Description Consecutive High Loss Interval (CHLI) threshold

The threshold of consecutive delta-ts within a sliding availability window that will cause this counter to increment. The CHLI counter will increment a maximum of one time for any given availability window. The values provide information on the number of consecutive HLIs that occurred in an availability window without meeting the unavailability criteria.

Context oam performance-monitoring ip session session-name *string* stamp loss timing chli-threshold *number*

Tree chli-threshold

Range 1 to 9

Default 5

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

consecutive-delta-t *number*

Description Number of consecutive delta-t that comprise the availability/unavailability sliding window, must not exceed 100 seconds

Availability and unavailability state changes will occur when the sliding window is completely comprised of a different state values than the current state

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Context	oam performance-monitoring ip session session-name *string* stamp loss timing consecutive-delta-t *number*
Tree	consecutive-delta-t
Range	2 to 10
Default	10
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frames-per-delta-t *number*

Description	Number of frames that comprise one delta-t used for comparison to FLR configuration The lenght of the delta-t window is frames-per-delta-t * the probe interval.
Context	oam performance-monitoring ip session session-name *string* stamp loss timing frames-per-delta-t *number*
Tree	frames-per-delta-t
Range	1 to 50
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Enter the oper-state context
Context	oam performance-monitoring ip session session-name *string* stamp oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading

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Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pad-tlv-size *number*

Description The PAD TLV byte count used to increase the size of the base STAMP PDU

A value '0' means no PAD TLV is added. Any other value represents the size of the PAD TLV.

Context oam performance-monitoring ip session session-name *string* stamp pad-tlv-size *number*

Tree pad-tlv-size

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Range	0 | 3 to 9502
Default	0
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-session-identifier *number*

Description	STAMP session identifier (SSID) included in the STAMP test packet
Context	oam performance-monitoring ip session session-name *string* stamp stamp-session-identifier *number*
Tree	stamp-session-identifier
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam performance-monitoring ip session session-name *string* stamp statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-malformed-flag-received *number*

Description	Indicates the count of packets in this sample window with the M (Malformed) bit set in the flags field of the TLV.
Context	oam performance-monitoring ip session session-name *string* stamp statistics stamp-malformed-flag-received *number*
Tree	stamp-malformed-flag-received
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-unrecognized-flag-received *number*

Description	Indicates the count of packets in this sample window with the U (Unrecognized) bit set in the flags field of the TLV.
Context	oam performance-monitoring ip session session-name *string* stamp statistics stamp-unrecognized-flag-received *number*
Tree	stamp-unrecognized-flag-received
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-duration *number*

Description	Duration of an OAM-PM session with a session-type on-demand When this leaf is not specified the on-demand test will execute until manually stopped.
Context	oam performance-monitoring ip session session-name *string* stamp test-duration *number*
Tree	test-duration
Range	1 to 86400
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-id *(number | keyword)*

Description	Test ID of the test session Test IDs are protocol specific. The same value may be re-used for different protocols but not for the same protocol. When the value 'auto' is configured the test-id is dynamically assigned from the upper 32-bit range, [2147483648..2247483647]
Context	oam performance-monitoring ip session session-name *string* stamp test-id *(number | keyword)*

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Tree	test-id
Range	0 to 2147483647
Default	auto
Options	• auto
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-id-in-use *number*

Description	Test ID allocated to the test session
Context	oam performance-monitoring ip session session-name *string* stamp test-id-in-use *number*
Tree	test-id-in-use
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ttl *number*

Description	TTL value for the IP packet
Context	oam performance-monitoring ip session session-name *string* ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-count-total *number*

Description	Total number of configured tests regardless of 'admin-state'
Context	oam performance-monitoring ip test-count-total *number*
Tree	test-count-total

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-activation-testhead

Description	Context service activation testhead
Context	oam service-activation-testhead
Tree	service-activation-testhead
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

acceptance-criteria-template ac-template-name *string*

Description	List of acceptance criteria templates
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string*
Tree	acceptance-criteria-template
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	100

ac-template-name *string*

Description	Acceptance criteria template name
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string*
String Length	1 to 64
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-threshold *number*

Description	CIR threshold
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* cir-threshold *number*
Tree	cir-threshold
Range	1 to 400000000
Units	kilobps
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-threshold *number*

Description	Delay threshold
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* delay-threshold *number*
Tree	delay-threshold
Range	1 to 100000000
Units	microseconds
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-var-threshold *number*

Description	Delay variation threshold
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* delay-var-threshold *number*
Tree	delay-var-threshold
Range	1 to 100000000
Units	microseconds

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Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Text description for the acceptance criteria template
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-threshold *decimal-number*

Description	Frame loss threshold for non-policing test
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* loss-threshold *decimal-number*
Tree	loss-threshold
Range	0.0000 to 100.0000
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-threshold-policing *decimal-number*

Description	Frame loss threshold for policing test
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* loss-threshold-policing *decimal-number*
Tree	loss-threshold-policing
Range	0.0000 to 100.0000

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Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

m-factor *number*

Description	Throughput acceptable margin of error Margin by which the observed throughput is off from the configured throughput to determine whether a service test passes or fails. The m-factor is used with cir-threshold and pir-threshold values for the different test types to determine whether a test passes or fails.
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* m-factor *number*
Tree	m-factor
Range	1 to 400000000
Units	kilobps
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pir-threshold *number*

Description	PIR threshold
Context	oam service-activation-testhead acceptance-criteria-template ac-template-name *string* pir-threshold *number*
Tree	pir-threshold
Range	1 to 400000000
Units	kilobps
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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frame-size-template fs-template-name *string*

Description	List frame size template
Context	oam service-activation-testhead frame-size-template fs-template-name *string*
Tree	frame-size-template
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	100

fs-template-name *string*

Description	Frame size template name
Context	oam service-activation-testhead frame-size-template fs-template-name *string*
String Length	1 to 64
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-a *number*

Description	Size-a
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-a *number*
Tree	size-a
Range	64 to 9212
Default	64
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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size-b *number*

Description	Size-b
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-b *number*
Tree	size-b
Range	64 to 9212
Default	128
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-c *number*

Description	Size-c
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-c *number*
Tree	size-c
Range	64 to 9212
Default	256
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-d *number*

Description	Size-d
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-d *number*
Tree	size-d
Range	64 to 9212
Default	512

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Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-e *number*

Description	Size-e
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-e *number*
Tree	size-e
Range	64 to 9212
Default	1024
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-f *number*

Description	Size-f
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-f *number*
Tree	size-f
Range	64 to 9212
Default	1280
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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size-g *number*

Description	Size-g
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-g *number*
Tree	size-g
Range	64 to 9212
Default	1518
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-h *number*

Description	Size-h
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-h *number*
Tree	size-h
Range	64 to 9212
Default	9212
Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-u *number*

Description	Size-u for user configured value
Context	oam service-activation-testhead frame-size-template fs-template-name *string* size-u *number*
Tree	size-u
Range	64 to 9212
Default	2000

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Units	bytes
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-test test-name *string*

Description	List service tests
Context	oam service-activation-testhead service-test test-name *string*
Tree	service-test
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	500

test-name *string*

Description	Service activation test name
Context	oam service-activation-testhead service-test test-name *string*
String Length	1 to 64
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administrative state of the service test
Context	oam service-activation-testhead service-test test-name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable

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- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Text description for the service test

Context oam service-activation-testhead service-test test-name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-stream stream-id *number*

Description List service streams

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number*

Tree service-stream

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-id *number*

Description Service stream identifier

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number*

Range 1 to 8

Configurable True

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

acceptance-criteria-template *reference*

Description Acceptance criteria template association to a service stream

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* acceptance-criteria-template *reference*

Tree acceptance-criteria-template

Reference oam service-activation-testhead acceptance-criteria-template ac-template-name *string*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of the service stream

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Text description for the service stream

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* description *string*

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Tree	description
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-mix

Description	Enter the frame-mix context Context frame mix
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-mix
Tree	frame-mix
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-size-template *reference*

Description	Frame size template association to a service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-mix frame-size-template *reference*
Tree	frame-size-template
Reference	oam service-activation-testhead frame-size-template fs-template-name *string*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence *string*

Description	Sequence of frame sizes for the service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-mix sequence *string*

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Tree	sequence
String Length	1 to 16
Default	a
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-payload

Description	Enter the frame-payload context Context for frame payload
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload
Tree	frame-payload
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-pattern

Description	Enter the data-pattern context Context for data pattern
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload data-pattern
Tree	data-pattern
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

repeat *(hex-string | number)*

Description	Repeated 4-byte pattern to pad each packet sent

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Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload data-pattern repeat *(hex-string | number)*
Tree	repeat
String Length	2 to 11
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet

Description	Enter the ethernet context Context for Ethernet header
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet
Tree	ethernet
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

c-tag

Description	Enter the c-tag context Context for c-tag
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet c-tag
Tree	c-tag
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-eligible *boolean*

Description	Marking of DEI bit in the VLAN header for inner double tagged or only for single tagged packets

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'true' means packet is discard eligible 'false' means packet is not dicard eligible

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet c-tag discard-eligible *boolean*

Tree discard-eligible

Default false

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p *number*

Description Priority code point of Ethernet frames for service stream c-tag

Dot1p bits sent on the wire for single tagged or inner double-tagged Ethernet frames. If the forwarding class and profile are not configured this value will drive those attributes for single tagged subinterfaces.

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet c-tag dot1p *number*

Tree dot1p

Range 0 to 7

Default 7

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dst-mac *string*

Description Destination MAC address of Ethernet frames

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet dst-mac *string*

Tree dst-mac

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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eth-cfm

Description Enter the eth-cfm context

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet eth-cfm

Tree eth-cfm

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description Enter the source context

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet eth-cfm source

Tree source

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *reference*

Description ETH-CFM maintenance association identifier specific to the domain identifier

Context oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet eth-cfm source association-id *reference*

Tree association-id

Reference oam ethcfm domain domain-id *string* association association-id *string*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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domain-id *reference*

Description	ETH-CFM maintenance domain identifier
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet eth-cfm source domain-id *reference*
Tree	domain-id
Reference	oam ethcfm domain domain-id *string*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *reference*

Description	The MEP identifier specific to the domain and association identifier
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet eth-cfm source mep-id *reference*
Tree	mep-id
Reference	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *reference*
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-tag

Description	Enter the s-tag context
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet s-tag
Tree	s-tag
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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discard-eligible *boolean*

Description	Marking of DEI bit in the outer VLAN header for double tagged packets 'true' means packet is discard eligible 'false' means packet is not dicard eligible
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet s-tag discard-eligible *boolean*
Tree	discard-eligible
Default	false
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p *number*

Description	Priority code point of Ethernet frames for service stream s-tag Dot1p bits sent on the wire for outer double-tagged subinterfaces. If the forwarding class and profile are not configured this value will drive those attributes for double tagged subinterfaces.
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* frame-payload ethernet s-tag dot1p *number*
Tree	dot1p
Range	0 to 7
Default	7
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-cir *number*

Description	CIR packet transmit rate for the service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* rate-cir *number*
Tree	rate-cir
Range	0 to 400000000

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Default	0
Units	kilobps
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-pir *number*

Description	PIR packet transmit rate for the service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* rate-pir *number*
Tree	rate-pir
Range	0 to 400000000
Default	0
Units	kilobps
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-types

Description	Enter the test-types context Context for test types
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* test-types
Tree	test-types
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir *boolean*

Description	CIR test for the service stream

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Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* test-types cir *boolean*
Tree	cir
Default	false
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-pir *boolean*

Description	CIR-PIR test for the service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* test-types cir-pir *boolean*
Tree	cir-pir
Default	false
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

performance *boolean*

Description	Performance test for the service stream
Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* test-types performance *boolean*
Tree	performance
Default	false
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policing *boolean*

Description	Policing test for the service stream

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Context	oam service-activation-testhead service-test test-name *string* service-stream stream-id *number* test-types policing *boolean*
Tree	policing
Default	false
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-run-type *keyword*

Description	Service stream run order
Context	oam service-activation-testhead service-test test-name *string* stream-run-type *keyword*
Tree	stream-run-type
Default	parallel
Options	• sequential Same test types are sent sequentially • parallel Same test types are sent at the same time
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-duration

Description	Enter the test-duration context Context for test duration
Context	oam service-activation-testhead service-test test-name *string* test-duration
Tree	test-duration
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cir

Description Enter the cir context

Context for the comitted information rate test

Context oam service-activation-testhead service-test test-name *string* test-duration cir

Tree cir

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minutes-seconds *string*

Description Duration of the CIR service tests

Context oam service-activation-testhead service-test test-name *string* test-duration cir minutes-seconds *string*

Tree minutes-seconds

String Length 5

Default 05:00

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-pir

Description Enter the cir-pir context

Context for the combined comitted information rate and the peak information rate test

Context oam service-activation-testhead service-test test-name *string* test-duration cir-pir

Tree cir-pir

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minutes-seconds *string*

Description	Duration of CIR-PIR service tests
Context	oam service-activation-testhead service-test test-name *string* test-duration cir-pir minutes-seconds *string*
Tree	minutes-seconds
String Length	5
Default	10:00
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

performance

Description	Enter the performance context Context for performance test
Context	oam service-activation-testhead service-test test-name *string* test-duration performance
Tree	performance
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hours-minutes-seconds *string*

Description	Duration of performance service test
Context	oam service-activation-testhead service-test test-name *string* test-duration performance hours-minutes-seconds *string*
Tree	hours-minutes-seconds
String Length	8
Default	00:15:00
Configurable	True

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policing

Description	Enter the policing context Context for policing test The test tansmits as 125% of the configured PIR rate, testing policing
Context	oam service-activation-testhead service-test test-name *string* test-duration policing
Tree	policing
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minutes-seconds *string*

Description	Duration of policing service test
Context	oam service-activation-testhead service-test test-name *string* test-duration policing minutes-seconds *string*
Tree	minutes-seconds
String Length	5
Default	10:00
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Context for statistics
Context	oam service-activation-testhead statistics
Tree	statistics

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

results

Description	Enter the results context Context for results
Context	oam service-activation-testhead statistics results
Tree	results
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-test test-name *string* test-run *number*

Description	List of service tests
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number*
Tree	service-test
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-name *string*

Description	Name of the service activation test
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number*
String Length	1 to 64
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-run *number*

Description Run number of the service activation service-test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number*

Range 1 to 4294967295

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Text description for the service test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* description *string*

Tree description

String Length 1 to 255

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the service-test run

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* oper-state *keyword*

Tree oper-state

Options

- none

  Not started
- running

  In progress
- stopped-by-user

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Test run halted by administrative action

- passed

  All tests with the run completed meeting acceptance criteria

- failed

  Some test within the run completed not meeting acceptance criteria

- stopped-by-fault

  Test run halted by fatal error, exmample resource availability

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-stream stream-id *number*

Description List of service streams

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number*

Tree service-stream

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-id *number*

Description Number of the service stream to be configured or read

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number*

Range 1 to 8

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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acceptance-criteria-template *string*

Description Acceptance criteria template for the service stream

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* acceptance-criteria-template *string*

Tree acceptance-criteria-template

String Length 1 to 64

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-threshold *number*

Description Value of /oam/service-activation-testhead/acceptance-criteria-template/cir-threshold when the test run started

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* cir-threshold *number*

Tree cir-threshold

Range 0 to 400000000

Units kilobps

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-threshold *number*

Description Value of /oam/service-activation-testhead/acceptance-criteria-template/delay-threshold when the test run started

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* delay-threshold *number*

Tree delay-threshold

Range 0 to 100000000

Units microseconds

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-var-threshold *number*

Description	Value of /oam/service-activation-testhead/acceptance-criteria-template/delay-var-threshold when the test run started
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* delay-var-threshold *number*
Tree	delay-var-threshold
Range	0 to 100000000
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Text description for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* description *string*
Tree	description
String Length	1 to 255
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-mix

Description	Enter the frame-mix context Context for frame-mix

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Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-mix
Tree	frame-mix
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-size-template *string*

Description	Name of frame-mix template configured for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-mix frame-size-template *string*
Tree	frame-size-template
String Length	1 to 64
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence *string*

Description	Sequence of frame sizes for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-mix sequence *string*
Tree	sequence
String Length	1 to 16
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frame-payload

Description	Enter the frame-payload context

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Context for frame-payload

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload

Tree frame-payload

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-pattern

Description Enter the data-pattern context

Context for data-pattern

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload data-pattern

Tree data-pattern

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

repeat *(hex-string | number)*

Description Repeated 4-byte pattern to pad each packet sent

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload data-pattern repeat *(hex-string | number)*

Tree repeat

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet

Description Enter the ethernet context

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Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet
Tree	ethernet
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

c-tag

Description	Enter the c-tag context Context for c-tag VLAN
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet c-tag
Tree	c-tag
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-eligible *boolean*

Description	Marking of DEI bit in the VLAN header 'true' means packet is diacard eligible 'false' means packet is not dicard eligible
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet c-tag discard-eligible *boolean*
Tree	discard-eligible
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dot1p *number*

Description Priority code point of Ethernet frames for service stream c-tag

Dot1p bits sent on the wire for single tagged or inner double-tagged Ethernet frames. If the forwarding class and profile are not configured this value will drive those attributes for single tagged subinterfaces.

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet c-tag dot1p *number*

Tree dot1p

Range 0 to 7

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-mac-address *string*

Description Destination MAC address of Ethernet frames

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet destination-mac-address *string*

Tree destination-mac-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

eth-cfm

Description Enter the eth-cfm context

Context for ETH-CFM

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet eth-cfm

Tree eth-cfm

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description Enter the source context

Context for source

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet eth-cfm source

Tree source

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description Source ETH-CFM maintenance association name identifier

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet eth-cfm source association-id *string*

Tree association-id

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *string*

Description Source ETH-CFM maintenance domain name identifier

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet eth-cfm source domain-id *string*

Tree domain-id

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description Source ETH-CFM maintenance association end point identifier

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet eth-cfm source mep-id *number*

Tree mep-id

Range 1 to 8191

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

s-tag

Description Enter the s-tag context

Context for s-tag VLAN

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet s-tag

Tree s-tag

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-eligible *boolean*

Description Marking of DEI bit in the VLAN header

'true' means packet is diacard eligible 'false' means packet is not dicard eligible

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Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet s-tag discard-eligible *boolean*

Tree discard-eligible

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p *number*

Description Priority code point of Ethernet frames for service stream s-tag

Dot1p bits sent on the wire for outer double-tagged subinterfaces. If the forwarding class and profile are not configured this value will drive those attributes for double tagged subinterfaces.

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* frame-payload ethernet s-tag dot1p *number*

Tree dot1p

Range 0 to 7

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description The interface name

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* interface *string*

Tree interface

String Length 1 to 255

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-ref

Description Enter the interface-ref context

Reference to interface subinterface when symbolic alias is configured

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* interface-ref

Tree interface-ref

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *reference*

Description Reference to the associated subinterface in network-instance

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* interface-ref subinterface *reference*

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Tree	subinterface
Reference	interface name *string* subinterface index *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-threshold *(decimal-number | keyword)*

Description	Value of /oam/service-activation-testhead/acceptance-criteria-template/loss-threshold when the test run started
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* loss-threshold *(decimal-number | keyword)*
Tree	loss-threshold
Range	0.0000 to 100.0000
Default	0.0000
Options	• none
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

loss-threshold-policing *(decimal-number | keyword)*

Description	Value of /oam/service-activation-testhead/acceptance-criteria-template/loss-threshold-policing when the test run started
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* loss-threshold-policing *(decimal-number | keyword)*
Tree	loss-threshold-policing
Range	0.0000 to 100.0000
Default	0.0000
Options	• none

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Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

m-factor *number*

Description	Value of /oam/service-activation-testhead/acceptance-criteria-template/m-factor when the test run started
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* m-factor *number*
Tree	m-factor
Range	0 to 400000000
Units	kilobps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	The network-instance which hosts the ETH-CFM MEP
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state of the service stream run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* oper-state *keyword*

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Tree	oper-state
Options	• none Not started • running In progress • stopped-by-user Test run halted by administrative action • passed All tests with the run completed meeting acceptance criteria • failed Some test within the run completed not meeting acceptance criteria • stopped-by-fault Test run halted by fatal error, exmample resource availability
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pir-threshold *number*

Description	Value of /oam/service-activation-testhead/acceptance-criteria-template/pir-threshold when the test run started
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* pir-threshold *number*
Tree	pir-threshold
Range	0 to 400000000
Units	kilobps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-cir *number*

Description	CIR packet transmit rate for the service stream

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Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* rate-cir *number*
Tree	rate-cir
Range	0 to 400000000
Units	kilobps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-pir *number*

Description	PIR packet transmit rate for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* rate-pir *number*
Tree	rate-pir
Range	0 to 400000000
Units	kilobps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-a *number*

Description	Size-a
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-a *number*
Tree	size-a
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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size-b *number*

Description	Size-b
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-b *number*
Tree	size-b
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-c *number*

Description	Size-c
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-c *number*
Tree	size-c
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-d *number*

Description	Size-d
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-d *number*
Tree	size-d
Range	64 to 9212
Units	bytes
Configurable	False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-e *number*

Description	Size-e
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-e *number*
Tree	size-e
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-f *number*

Description	Size-f
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-f *number*
Tree	size-f
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-g *number*

Description	Size-g
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-g *number*
Tree	size-g

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Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-h *number*

Description	Size-h
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-h *number*
Tree	size-h
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

size-u *number*

Description	Size-u
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* size-u *number*
Tree	size-u
Range	64 to 9212
Units	bytes
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-mac-address *string*

Description	Indicates the source MAC address for the service stream

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00:00:00:00:00:00 is returned if a source MAC address is not available

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* source-mac-address *string*

Tree source-mac-address

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-results test-type *keyword*

Description List test type

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword*

Tree test-results

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-type *keyword*

Description The test type to be read

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword*

Options

- cir
- cir-pir
- policing
- performance

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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measured-delay-avg *number*

Description	Average delay measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-avg *number*
Tree	measured-delay-avg
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-delay-max *number*

Description	Maximum delay measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-max *number*
Tree	measured-delay-max
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-delay-min *number*

Description	Minimum delay measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-min *number*
Tree	measured-delay-min
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-delay-var-avg *number*

Description	Average delay variation measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-var-avg *number*
Tree	measured-delay-var-avg
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-delay-var-max *number*

Description	Maximum delay variation measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-var-max *number*
Tree	measured-delay-var-max
Units	microseconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-delay-var-min *number*

Description	Minimum delay variation measured for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-delay-var-min *number*
Tree	measured-delay-var-min
Units	microseconds
Configurable	False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-frame-loss-ratio *decimal-number*

Description	Measured FLR for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-frame-loss-ratio *decimal-number*
Tree	measured-frame-loss-ratio
Range	0.0000 to 100.0000
Units	percent
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-frame-rx *number*

Description	Number of frames received during the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-frame-rx *number*
Tree	measured-frame-rx
Default	0
Units	frames
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-frame-tx *number*

Description	Number of frames transmitted during the test run

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Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-frame-tx *number*
Tree	measured-frame-tx
Default	0
Units	frames
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

measured-throughput *number*

Description	Measured throughput for the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* measured-throughput *number*
Tree	measured-throughput
Units	kilobps
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Indicates the operational state of the test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* oper-state *keyword*
Tree	oper-state
Options	• none Not started • running In progress • stopped-by-user Test run halted by administrative action

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- passed

  All tests with the run completed meeting acceptance criteria
- failed

  Some test within the run completed not meeting acceptance criteria
- stopped-by-fault

  Test run halted by fatal error, exmample resource availability

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-status-delay *keyword*

Description Test run's operational status, with respect to the delay acceptance criteria

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* oper-status-delay *keyword*

Tree oper-status-delay

Options

- unknown

  Test has not completed and has not been compared to acceptance criteria
- pass

  Test completed meeting acceptance criteria
- fail

  Test completed not meeting acceptance criteria

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-status-delay-var *keyword*

Description Test run's operational status, with respect to the delay variation acceptance criteria

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* oper-status-delay-var *keyword*

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Tree oper-status-delay-var

Options
- unknown

  Test has not completed and has not been compared to acceptance criteria
- pass

  Test completed meeting acceptance criteria
- fail

  Test completed not meeting acceptance criteria

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-status-frame-loss-ratio *keyword*

Description Test run's operational status, with respect to the FLR acceptance criteria

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* oper-status-frame-loss-ratio *keyword*

Tree oper-status-frame-loss-ratio

Options
- unknown

  Test has not completed and has not been compared to acceptance criteria
- pass

  Test completed meeting acceptance criteria
- fail

  Test completed not meeting acceptance criteria

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-status-throughput *keyword*

Description Test run's operational status, with respect to the throughput acceptance criteria

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Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* oper-status-throughput *keyword*

Tree oper-status-throughput

Options

- unknown

  Test has not completed and has not been compared to acceptance criteria

- pass

  Test completed meeting acceptance criteria

- fail

  Test completed not meeting acceptance criteria

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-end *(date-and-time | keyword)*

Description End time time of the specified test run

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* time-end *(date-and-time | keyword)*

Tree time-end

String Length 20 to 32

Options

- n/a

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-left *number*

Description Execution time remaining for the test run

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* time-left *number*

Tree time-left

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Units	seconds
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-start *(date-and-time | keyword)*

Description	Start time of the specified test run
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-results test-type *keyword* time-start *(date-and-time | keyword)*
Tree	time-start
String Length	20 to 32
Options	• not-started
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-types

Description	Enter the test-types context Context for test-types
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-types
Tree	test-types
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir *boolean*

Description	CIR test for the service stream

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Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-types cir *boolean*
Tree	cir
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-pir *boolean*

Description	CIR-PIR test for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-types cir-pir *boolean*
Tree	cir-pir
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

performance *boolean*

Description	Performance test for the service stream
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-types performance *boolean*
Tree	performance
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policing *boolean*

Description	Policing test for the service stream

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Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* service-stream stream-id *number* test-types policing *boolean*

Tree policing

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-run-type *keyword*

Description Service stream run order

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* stream-run-type *keyword*

Tree stream-run-type

Options

- sequential

  Same test types are sent sequentially

- parallel

  Same test types are sent at the same time

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-duration

Description Enter the test-duration context

Context for test duration

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration

Tree test-duration

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cir

Description Enter the cir context

Context for the comitted information rate test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration cir

Tree cir

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minutes-seconds *string*

Description Duration of the CIR service test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration cir minutes-seconds *string*

Tree minutes-seconds

String Length 5

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cir-pir

Description Enter the cir-pir context

Context for the combined comitted information rate and the peak information rate test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration cir-pir

Tree cir-pir

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minutes-seconds *string*

Description	Duration of the CIR-PIR service test
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration cir-pir minutes-seconds *string*
Tree	minutes-seconds
String Length	5
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

performance

Description	Enter the performance context Context for performance test
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration performance
Tree	performance
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hours-minutes-seconds *string*

Description	Duration of the performance service test
Context	oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration performance hours-minutes-seconds *string*
Tree	hours-minutes-seconds
String Length	8
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policing

Description Enter the policing context

Context for policing test

The test tansmits as 125% of the configured PIR rate, testing policing

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration policing

Tree policing

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minutes-seconds *string*

Description Duration of the policing service test

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* test-duration policing minutes-seconds *string*

Tree minutes-seconds

String Length 5

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-end *(date-and-time | keyword)*

Description End time of the specified service-test run

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* time-end *(date-and-time | keyword)*

Tree time-end

String Length 20 to 32

Options

- n/a

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-start *(date-and-time | keyword)*

Description Start time of the specified service-test run

Context oam service-activation-testhead statistics results service-test test-name *string* test-run *number* time-start *(date-and-time | keyword)*

Tree time-start

String Length 20 to 32

Options

- not-started

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stored-results-total *number*

Description Count of results retained

Context oam service-activation-testhead statistics stored-results-total *number*

Tree stored-results-total

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp

Description Enable the stamp context

Context oam stamp

Tree stamp

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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session-reflector

Description	STAMP Session-Reflector configuration and state
Context	oam stamp session-reflector
Tree	session-reflector
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inactivity-timer *number*

Description	STAMP test session timeout on inactivity The amount of time (ref-wait) a test session must be inactive, no packets arriving, before the test session is removed from the Session-Reflector stateful table.
Context	oam stamp session-reflector inactivity-timer *number*
Tree	inactivity-timer
Range	1 to 604800
Default	900
Units	seconds
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *reference*

Description	The list of network instances configured for STAMP Session-Reflector function
Context	oam stamp session-reflector network-instance name *reference*
Tree	network-instance
Configurable	True
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *reference*

Description The name of the network instances to which the Session-Reflector state and configuration applies

Context oam stamp session-reflector network-instance name *reference*

Reference network-instance name *string*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description This attribute specifies whether the STAMP Session-Reflector is enabled or disabled

Context oam stamp session-reflector network-instance name *reference* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description A string describing the STAMP Session-Reflector

Context oam stamp session-reflector network-instance name *reference* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description The list of IP source addresses or ranges allowed to send STAMP test packets to Session-Reflector

Context oam stamp session-reflector network-instance name *reference* ip-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*

Tree ip-prefix

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description The IP address or range allowed to send STAMP test packets to the Session-Reflector

Context oam stamp session-reflector network-instance name *reference* ip-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Enter the oper-state context

Context oam stamp session-reflector network-instance name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty

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- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context oam stamp session-reflector network-instance name *reference* statistics

Tree statistics

Configurable False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-packet *number*

Description	Session-Reflector was able to identify STAMP test packet but the packet was incorrectly formatted, packet discarded This counter will be increased if the malformation affects the mapping of the test packet to the test session. This would be the case where the session cannot be identified.
Context	oam stamp session-reflector network-instance name *reference* statistics malformed-packet *number*
Tree	malformed-packet
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-discards-source-destination-equal *number*

Description	Session-Reflector discarded the received test packet because source IP and destination IP are the same The test session is never created in the case where source IP and destination IP are the same.
Context	oam stamp session-reflector network-instance name *reference* statistics packet-discards-source-destination-equal *number*
Tree	packet-discards-source-destination-equal
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-match-failure *number*

Description	Session-Sender IP does not have a prefix match configured on the Session-Reflector
Context	oam stamp session-reflector network-instance name *reference* statistics prefix-match-failure *number*
Tree	prefix-match-failure
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-reflector-udp-port-registration-failure *number*

Description	The Session-Reflector was unable to allocate the UDP port for this network instance reflector
Context	oam stamp session-reflector network-instance name *reference* statistics session-reflector-udp-port-registration-failure *number*
Tree	session-reflector-udp-port-registration-failure
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-frames-received *number*

Description	STAMP test frames received
Context	oam stamp session-reflector network-instance name *reference* statistics test-frames-received *number*
Tree	test-frames-received
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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test-frames-sent *number*

Description	STAMP test frames transmitted
Context	oam stamp session-reflector network-instance name *reference* statistics test-frames-sent *number*
Tree	test-frames-sent
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions *number*

Description	STAMP test session count
Context	oam stamp session-reflector network-instance name *reference* statistics test-sessions *number*
Tree	test-sessions
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Description	The per test session statistics
Context	oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*
Tree	test-session-statistics
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-sender-ip *(ipv4-address | ipv6-address)*

Description The Source IP address of the Session-Sender

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-sender-udp *number*

Description The Source UDP address of the Session-Sender

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Range 0 to 65535

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-reflector-ip *(ipv4-address | ipv6-address)*

Description The Destination IP address in the Session-Sender STAMP test packet, an IP on the Session-Reflector

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-reflector-udp *number*

Description The Destination UDP address in the Session-Sender STAMP test packet, the listening port on the Session-Reflector

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Range 0 to 65535

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stamp-session-identifier *number*

Description The SSID in the Session-Sender STAMP test packet

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number*

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-ref-wait *number*

Description The current value of the ref wait time for the test session

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* current-ref-wait *number*

Tree current-ref-wait

Configurable False

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Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sequence-number-received *number*

Description The last sequence number received in the Session-Sender test packet

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* last-sequence-number-received *number*

Tree last-sequence-number-received

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sequence-number-transmitted *number*

Description The last sequence number transmitted in the Session-Reflector test packet

Context oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* last-sequence-number-transmitted *number*

Tree last-sequence-number-transmitted

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

malformed-tlv *number*

Description Session-Reflector was able to identify STAMP test packet but the packet was incorrectly formatted, packet discarded

This counter will be increased if the malformation does not affect the mapping of the test packet to the test session. This would be the case if a TLV is malformed.

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Context	oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* malformed-tlv *number*
Tree	malformed-tlv
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-frames-received *number*

Description	STAMP test frames received
Context	oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* test-frames-received *number*
Tree	test-frames-received
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-frames-sent *number*

Description	STAMP test frames transmitted
Context	oam stamp session-reflector network-instance name *reference* test-session-statistics session-sender-ip *(ipv4-address | ipv6-address)* session-sender-udp *number* session-reflector-ip *(ipv4-address | ipv6-address)* session-reflector-udp *number* stamp-session-identifier *number* test-frames-sent *number*
Tree	test-frames-sent
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

twamp-light-extensions

Description Enter the twamp-light-extensions context

Protocol specific configuration for TWAMP-Light PDU extensions

Context oam stamp session-reflector network-instance name *reference* twamp-light-extensions

Tree twamp-light-extensions

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-micro-sessions *boolean*

Description Enable checking for micro-session identifiers in TWAMP-Light PDU

Context oam stamp session-reflector network-instance name *reference* twamp-light-extensions lag-micro-sessions *boolean*

Tree lag-micro-sessions

Default false

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-port *number*

Description The UDP Port listening port of the STAMP Session-Reflector

Context oam stamp session-reflector network-instance name *reference* udp-port *number*

Tree udp-port

Range 862 | 64364 to 64373

Default 862

Configurable True

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context oam stamp session-reflector statistics

Tree statistics

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-discards-on-reception *number*

Description Received STAMP test packets discarded lack of resources or resource contention

Context oam stamp session-reflector statistics packet-discards-on-reception *number*

Tree packet-discards-on-reception

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-discards-on-transmission *number*

Description Transmitted STAMP test packets discarded due to lack of resources or resource contention

Context oam stamp session-reflector statistics packet-discards-on-transmission *number*

Tree packet-discards-on-transmission

Default 0

Configurable False

Platforms 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reflector-table-entries-full *number*

Description	Session-Reflector no available state table entries to add new test session
Context	oam stamp session-reflector statistics reflector-table-entries-full *number*
Tree	reflector-table-entries-full
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflectors-configured *number*

Description	Count of STAMP Session-Reflectors administratively enabled regardless of operational state
Context	oam stamp session-reflector statistics reflectors-configured *number*
Tree	reflectors-configured
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflectors-not-operational *number*

Description	Count of STAMP Session-Reflectors with an administrative state 'enable' and operational state 'down'
Context	oam stamp session-reflector statistics reflectors-not-operational *number*
Tree	reflectors-not-operational
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reflectors-operational *number*

Description	Count of STAMP Session-Reflectors with an administrative state 'enable' and operational state 'up'
Context	oam stamp session-reflector statistics reflectors-operational *number*
Tree	reflectors-operational
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-reflector-not-found *number*

Description	Session-Sender is sending to a destination UDP port that is not part of the Session-Reflector The Session-Reflector has not allocated the UDP port for this network instance reflector. This counter may increase when the Session-Reflector is deleted and packets for that specific Session-Reflector had been queued for processing. This counter does not increment when there is failure to map UDP port to the STAMP protocol.
Context	oam stamp session-reflector statistics session-reflector-not-found *number*
Tree	session-reflector-not-found
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-frames-received *number*

Description	STAMP test frames received
Context	oam stamp session-reflector statistics test-frames-received *number*
Tree	test-frames-received
Default	0
Configurable	False

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Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-frames-sent *number*

Description	STAMP test frames transmitted
Context	oam stamp session-reflector statistics test-frames-sent *number*
Tree	test-frames-sent
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-session-count *number*

Description	STAMP test session count
Context	oam stamp session-reflector statistics test-session-count *number*
Tree	test-session-count
Default	0
Configurable	False
Platforms	7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

twamp

Description	Enable the twamp context
Context	oam twamp
Tree	twamp
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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server

Description Enter the server context

Configuration of the TWAMP Server logical entity

Context oam twamp server

Tree server

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *reference*

Description Enter the network-instance list instance

Context oam twamp server network-instance name *reference*

Tree network-instance

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description The name of the TWAMP Server network instance

Context oam twamp server network-instance name *reference*

Reference network-instance name *string*

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description TWAMP Server administrative state

A value 'enable' administratively starts the Server and Session-Reflector. A value 'disable' administratively stops the Server and Session-Reflector, dropping any active TWAMP-Control channels and terminating all TWAMP-Test sessions.

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Context	oam twamp server network-instance name *reference* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-connection prefix *(ipv4-prefix | ipv6-prefix)*

Description	List of TWAMP Client IP prefixes that can establish TWAMP-Control connections with the Server
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)*
Tree	client-connection
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	A TWAMP Client IP prefix the Server will accept TWAMP-Control connections from
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-connections *number*

Description	The per Control-Client IP prefix maximum number of concurrent TWAMP-Control connections the Server supports
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* maximum-connections *number*

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Tree	maximum-connections
Range	1 to 64
Default	32
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-sessions *number*

Description	The per Control-Client IP prefix maximum number of oncurrent TWAMP-Test sessions the Server supports
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* maximum-sessions *number*
Tree	maximum-sessions
Range	1 to 128
Default	32
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-connections-active *number*

Description	Total number of active TWAMP-Control channels
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics control-connections-active *number*
Tree	control-connections-active

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-connections-rejected *number*

Description	Total number of rejected TWAMP-Control channels
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics control-connections-rejected *number*
Tree	control-connections-rejected
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-received *number*

Description	Total number of TWAMP-Test packets received relevant to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-packets-received *number*
Tree	test-packets-received
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-transmitted *number*

Description	Total number of TWAMP-Test packets sent relevant to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-packets-transmitted *number*
Tree	test-packets-transmitted
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-aborted *number*

Description	Total number of aborted TWAMP_test sessions relative to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-sessions-aborted *number*
Tree	test-sessions-aborted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-active *number*

Description	Total number of active TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-sessions-active *number*
Tree	test-sessions-active
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-completed *number*

Description	Total number of completed TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-sessions-completed *number*
Tree	test-sessions-completed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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test-sessions-rejected *number*

Description	Total number of rejected TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* client-connection prefix *(ipv4-prefix | ipv6-prefix)* statistics test-sessions-rejected *number*
Tree	test-sessions-rejected
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*

Description	List TWAMP-Control (TCP) connections
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*
Tree	control-connection
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-ip *(ipv4-address | ipv6-address)*

Description	The IP address of the Control-Client used in the TWAMP-Control (TCP) packets belonging to this control connection
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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client-tcp-port *number*

Description	The source TCP port number of the Control-Client used in the TWAMP-Control (TCP) packets belonging to this control connection
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-ip *(ipv4-address | ipv6-address)*

Description	The destination IP address in the TWAMP Control message sent by the Control-Client targeting an IP address of the Server
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-tcp-port *number*

Description	The destination TCP port the Server listens for TWAMP-Control messages
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number*
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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control-packet-dscp *number*

Description The DSCP value used in the IP header of the TWAMP-Control (TCP) packets sent by the Server

Context oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* control-packet-dscp *number*

Tree control-packet-dscp

Range 0 to 63

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

selected-mode *keyword*

Description The TWAMP Mode chosen in the Mode field of the TWAMP Set-Up-Response message

Context oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* selected-mode *keyword*

Tree selected-mode

Options

- unauthenticated

  No encryption or authentication is applied in TWAMP-Control and TWAMP-Test
- authenticated

  Control-Client and Server pass a shared secret for authentication
- encrypted

  Additional level of protection using encryption
- unauth-test-encrypt-control

  Mixed Security Mode, the TWAMP-Test uses unauthenticated mode and TWAMP-Control uses encrypted mode
- individual-session-control

  Individual TWAMP-Test sessions start and stop using individual session identifiers

  This allows TWAMP-Test sessions using the same control channel to be started individually instead of using the bulk all sessions start.
- reflect-octets

  Reflect octets capability

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- symmetrical-size

  Symmetrical size for test packets between Session-Sender and Session-Reflector

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the Server TWAMP-Control connection state

Context oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* state *keyword*

Tree state

Options

- active

  TWAMP-Control connection between the Server and the Control-Client is active

  Packets are arriving on the TWAMP-Control channel or there are active TWAMP-Test sessions on the TWAMP-Control channel.

- servwait

  TWAMP-Control connection between the Server and the Control-Client is in SERVWAIT

  This state is entered when no there are no TWAMP-Control messages between the Control-Client and Server and all test sessions on the TWAMP-Control channel have been stopped, and the REFWAIT (timeout following test session stop) has expired.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics

Tree statistics

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-received *number*

Description	Total number of TWAMP-Test packets received relevant to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics test-packets-received *number*
Tree	test-packets-received
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-transmitted *number*

Description	Total number of TWAMP-Test packets sent relevant to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics test-packets-transmitted *number*
Tree	test-packets-transmitted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-aborted *number*

Description	Total number of aborted TWAMP_test sessions relative to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics test-sessions-aborted *number*
Tree	test-sessions-aborted

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-active *number*

Description	Total number of active TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics test-sessions-active *number*
Tree	test-sessions-active
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-completed *number*

Description	Total number of completed TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-address | ipv6-address)* server-tcp-port *number* statistics test-sessions-completed *number*
Tree	test-sessions-completed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-rejected *number*

Description	Total number of rejected TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* control-connection client-ip *(ipv4-address | ipv6-address)* client-tcp-port *number* server-ip *(ipv4-*

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address | *ipv6-address)* server-tcp-port *number* statistics test-sessions-rejected *number*

Tree test-sessions-rejected

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-packet-dscp *(number | keyword)*

Description The DSCP to be placed in the IP header of TWAMP-Control (TCP) packets generated by the Server

Context oam twamp server network-instance name *reference* control-packet-dscp *(number | keyword)*

Tree control-packet-dscp

Range 0 to 63

Default CS7

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5

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- EF
- CS6
- CS7

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description TWAMP Server common configuration

Context oam twamp server network-instance name *reference* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enforce-test-session-start-time *boolean*

Description Discard or process TWAMP-Test packets arriving before the negotiated session start time

A Request-TW-Session includes a start-time value for the test session. A value 'true' enforces the server check that will drop the TWAMP-Test packets if the test session start-time is before the Server time of day. In environments where the TWAMP Client and TWAMP Servers are not synchronized the value 'false' can be used to skip this validation check and process TWAMP test packets that arrive before their indicated start time.

Context oam twamp server network-instance name *reference* enforce-test-session-start-time *boolean*

Tree enforce-test-session-start-time

Default true

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-connections *number*

Description	The system wide maximum number of concurrent TWAMP-Control connections the Server supports
Context	oam twamp server network-instance name *reference* maximum-connections *number*
Tree	maximum-connections
Range	1 to 64
Default	32
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-sessions *number*

Description	The system wide maximum number of concurrent TWAMP-Test sessions the Server supports
Context	oam twamp server network-instance name *reference* maximum-sessions *number*
Tree	maximum-sessions
Range	1 to 128
Default	32
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modes *keyword*

Description	The list of TWAMP Modes this Server supports
Context	oam twamp server network-instance name *reference* modes *keyword*
Tree	modes
Options	• unauthenticated No encryption or authentication is applied in TWAMP-Control and TWAMP-Test • authenticated Control-Client and Server pass a shared secret for authentication

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- encrypted

  Additional level of protection using encryption
- unauth-test-encrypt-control

  Mixed Security Mode, the TWAMP-Test uses unauthenticated mode and TWAMP-Control uses encrypted mode
- individual-session-control

  Individual TWAMP-Test sessions start and stop using individual session identifiers

  This allows TWAMP-Test sessions using the same control channel to be started individually instead of using the bulk all sessions start.
- reflect-octets

  Reflect octets capability
- symmetrical-size

  Symmetrical size for test packets between Session-Sender and Session-Reflector

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the TWAMP Server and Session/Reflector

Context oam twamp server network-instance name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

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Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

servwait *number*

Description TWAMP-Control (TCP) session timeout, in seconds

The length of time the Server maintains the TWAMP-Control channel in the absence of any activity for the channel. This state is entered when there is no TWAMP-Control messages between the Control-Client and Server, and all test sessions on the TWAMP-Control channel have been stopped, and the timeout following test session stop (REFWAIT) has expired.

Context oam twamp server network-instance name *reference* servwait *number*

Tree servwait

Range 60 to 3600

Default 900

Units seconds

Configurable True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-reflector

Description	Enter the session-reflector context Configuration and state for the TWAMP Session-Reflector
Context	oam twamp server network-instance name *reference* session-reflector
Tree	session-reflector
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*

Description	TWAMP Session-Reflector test sessions.
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*
Tree	test-session
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sender-ip *(ipv4-address | ipv6-address)*

Description	The IP address of the TWAMP Session-Sender for the TWAMP test packets belonging to this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sender-udp-port *number*

Description	The source UDP port used by the TWAMP Session-Sender for the TWAMP test packets belonging to this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector-ip *(ipv4-address | ipv6-address)*

Description	The IP address of the TWAMP Session-Reflector, the destination IP address used in the TWAMP test packets belonging to this test
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reflector-udp-port *number*

Description	The UDP port number the TWAMP Session-Reflector listens on for TWAMP test packets belonging to this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number*
Range	862 | 49152 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-sequence-number-received *number*

Description	The last sequence number in the TWAMP-Test packet sent by the Session-Sender to the Session-Reflector for this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* last-sequence-number-received *number*
Tree	last-sequence-number-received
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sequence-number-transmitted *number*

Description	The last sequence number in the TWAMP-Test packet sent by the Session-Reflector to the Session-Sender for this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* last-sequence-number-transmitted *number*
Tree	last-sequence-number-transmitted
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-connection-client-ip *(ipv4-address | ipv6-address)*

Description	The IP address of the Control-Client used in the TWAMP-Control (TCP) packets belonging to this control connection which negotiated the test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* parent-connection-client-ip *(ipv4-address | ipv6-address)*
Tree	parent-connection-client-ip
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-connection-client-tcp-port *number*

Description	The TCP port of the Control-Client used in the TWAMP-Control (TCP) packets belonging to this control connection which negotiated the test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* parent-connection-client-tcp-port *number*
Tree	parent-connection-client-tcp-port
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-connection-server-ip *(ipv4-address \| ipv6-address)*

Description	The destination IP address in the TWAMP Control message sent by the Control-Client targeting the Server which negotiated this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* parent-connection-server-ip *(ipv4-address | ipv6-address)*
Tree	parent-connection-server-ip
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-connection-server-tcp-port *number*

Description	The destination TCP Port (862) in the TWAMP Control message sent by the Control-Client targeting the server which negotiated this test session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* parent-connection-server-tcp-port *number*

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Tree	parent-connection-server-tcp-port
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-received *number*

Description	Total number of TWAMP-Test packets received relevant to the context
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* statistics test-packets-received *number*
Tree	test-packets-received
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-transmitted *number*

Description	Total number of TWAMP-Test packets sent relevant to the context
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* statistics test-packets-transmitted *number*

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Tree	test-packets-transmitted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packet-dscp *number*

Description	The DSCP value present in the IP header of TWAMP-Test packets belonging to this session
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* test-packet-dscp *number*
Tree	test-packet-dscp
Range	0 to 63
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-session-id *string*

Description	A TWAMP sever auto-allocated identifier for this TWAMP-Test session that is unique to the local Server This value is communicated to the Control-Client requesting the test session using the SID field of the Accept-Session message.
Context	oam twamp server network-instance name *reference* session-reflector test-session sender-ip *(ipv4-address | ipv6-address)* sender-udp-port *number* reflector-ip *(ipv4-address | ipv6-address)* reflector-udp-port *number* test-session-id *string*
Tree	test-session-id
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description	Enter the statistics context
Context	oam twamp server network-instance name *reference* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-connections-active *number*

Description	Total number of active TWAMP-Control channels
Context	oam twamp server network-instance name *reference* statistics control-connections-active *number*
Tree	control-connections-active
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control-connections-rejected *number*

Description	Total number of rejected TWAMP-Control channels
Context	oam twamp server network-instance name *reference* statistics control-connections-rejected *number*
Tree	control-connections-rejected
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-received *number*

Description	Total number of TWAMP-Test packets received relevant to the context

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Context	oam twamp server network-instance name *reference* statistics test-packets-received *number*
Tree	test-packets-received
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-packets-transmitted *number*

Description	Total number of TWAMP-Test packets sent relevant to the context
Context	oam twamp server network-instance name *reference* statistics test-packets-transmitted *number*
Tree	test-packets-transmitted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-aborted *number*

Description	Total number of aborted TWAMP_test sessions relative to the context
Context	oam twamp server network-instance name *reference* statistics test-sessions-aborted *number*
Tree	test-sessions-aborted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-active *number*

Description	Total number of active TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* statistics test-sessions-active *number*
Tree	test-sessions-active

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-completed *number*

Description	Total number of completed TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* statistics test-sessions-completed *number*
Tree	test-sessions-completed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-sessions-rejected *number*

Description	Total number of rejected TWAMP-Test sessions relative to the context
Context	oam twamp server network-instance name *reference* statistics test-sessions-rejected *number*
Tree	test-sessions-rejected
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	oam twamp statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dropped-connection-states

Description	Enter the dropped-connection-states context The state of the TWAMP-Control channel when the failure occured
Context	oam twamp statistics dropped-connection-states
Tree	dropped-connection-states
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active *number*

Description	Count of TWAMP-Control connection failures in test active state
Context	oam twamp statistics dropped-connection-states active *number*
Tree	active
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

idle *number*

Description	Count of TWAMP-Control connection failures in idle state
Context	oam twamp statistics dropped-connection-states idle *number*
Tree	idle
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-started *number*

Description	Count of TWAMP-Control connection failures in process-session-start state
Context	oam twamp statistics dropped-connection-states process-started *number*

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Tree	process-started
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-stop *number*

Description	Count of TWAMP-Control connection failures in process-session-stop state
Context	oam twamp statistics dropped-connection-states process-stop *number*
Tree	process-stop
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-tw-session *number*

Description	Count of TWAMP-Control connection failures in process-session-request state
Context	oam twamp statistics dropped-connection-states process-tw-session *number*
Tree	process-tw-session
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-wait *number*

Description	Count of TWAMP-Control connection failures in set-up-wait state
Context	oam twamp statistics dropped-connection-states setup-wait *number*
Tree	setup-wait
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

started *number*

Description	Count of TWAMP-Control connection failures in server-started state
Context	oam twamp statistics dropped-connection-states started *number*
Tree	started
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-connections

Description	Enter the dropped-connections context TWAMP-Control (TCP) dropped or closed connections
Context	oam twamp statistics dropped-connections
Tree	dropped-connections
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

connection-timeout *number*

Description	TCP connection timeout
Context	oam twamp statistics dropped-connections connection-timeout *number*
Tree	connection-timeout
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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control-command-not-valid *number*

Description	TCP connection failure because invalid TWAMP-Control command receievd from Control-Client
Context	oam twamp statistics dropped-connections control-command-not-valid *number*
Tree	control-command-not-valid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

incorrect-stop-session-count *number*

Description	TCP connection failure because invalid session count was received in the Stop-Sessions message from the Control-Client
Context	oam twamp statistics dropped-connections incorrect-stop-session-count *number*
Tree	incorrect-stop-session-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-invalid-hmac *number*

Description	Invalid Hash-based Message Authentication Code (HMAC)
Context	oam twamp statistics dropped-connections invalid-invalid-hmac *number*
Tree	invalid-invalid-hmac
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-global-limit-exceed *number*

Description	TCP connection failures because global connection limit exceeds
Context	oam twamp statistics dropped-connections maximum-global-limit-exceed *number*
Tree	maximum-global-limit-exceed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-prefix-limit-exceed *number*

Description	TCP connection failures because per prefix connection limit exceeds
Context	oam twamp statistics dropped-connections maximum-prefix-limit-exceed *number*
Tree	maximum-prefix-limit-exceed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

memory-allocation-error *number*

Description	TCP connection failure because of memory allocation error
Context	oam twamp statistics dropped-connections memory-allocation-error *number*
Tree	memory-allocation-error
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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message-send-error *number*

Description	TCP connection failure because of server message send error (Greeting, Start or Accept)
Context	oam twamp statistics dropped-connections message-send-error *number*
Tree	message-send-error
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

no-client-prefix-match *number*

Description	TCP connection failures because no prefix match for Client IP
Context	oam twamp statistics dropped-connections no-client-prefix-match *number*
Tree	no-client-prefix-match
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

no-internal-resource *number*

Description	TCP connection failures because internal resource unavailable
Context	oam twamp statistics dropped-connections no-internal-resource *number*
Tree	no-internal-resource
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-zero-sid-in-client-control-message *number*

Description	TCP connection failure because of invalid non-zero SID received from Control-Client

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Context	oam twamp statistics dropped-connections non-zero-sid-in-client-control-message *number*
Tree	non-zero-sid-in-client-control-message
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-connection-closed *number*

Description	TCP connection closed
Context	oam twamp statistics dropped-connections tcp-connection-closed *number*
Tree	tcp-connection-closed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-connection-fatal-error *number*

Description	TCP connection errors
Context	oam twamp statistics dropped-connections tcp-connection-fatal-error *number*
Tree	tcp-connection-fatal-error
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-unexpected-event *number*

Description	TCP connection failures because of unexpected protocol events
Context	oam twamp statistics dropped-connections tcp-unexpected-event *number*
Tree	tcp-unexpected-event
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unspecified-mode *number*

Description	TCP connection failures because unspecified TWAMP mode received from Control-Client
Context	oam twamp statistics dropped-connections unspecified-mode *number*
Tree	unspecified-mode
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unsupported-mode *number*

Description	TCP connection failures because unsupported TWAMP mode requested by Control-Client
Context	oam twamp statistics dropped-connections unsupported-mode *number*
Tree	unsupported-mode
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-test-packet

Description	Enter the dropped-test-packet context TWAMP-Test packet drop stats
Context	oam twamp statistics dropped-test-packet
Tree	dropped-test-packet
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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arrived-before-start-time *number*

Description	Test packets dropped because they arrived before start time The TWAMP-Test packets arrived on the Session-Reflector before the indicated start-time in the Request-TW-Session. This is likely caused by a difference in Time of Day (ToD) clocks used for timestaming the TWAMP-Test packet. This may occur when the Server/Session-Reflector clock is ahead of the ToD clock of the Control-Client/Session-Sender.
Context	oam twamp statistics dropped-test-packet arrived-before-start-time *number*
Tree	arrived-before-start-time
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

incorrect-packet-size *number*

Description	Test packets dropped because of unexpected packet size
Context	oam twamp statistics dropped-test-packet incorrect-packet-size *number*
Tree	incorrect-packet-size
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

incorrect-source-address *number*

Description	Test packets dropped because incorrect source address
Context	oam twamp statistics dropped-test-packet incorrect-source-address *number*
Tree	incorrect-source-address
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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invalid-error-estimate *number*

Description	Test packets dropped because invalid TWAMP-Test error estimate received from the Session-Sender
Context	oam twamp statistics dropped-test-packet invalid-error-estimate *number*
Tree	invalid-error-estimate
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-server-octets *number*

Description	Test packets dropped because of invalid server octets
Context	oam twamp statistics dropped-test-packet invalid-server-octets *number*
Tree	invalid-server-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-symmetric-mbz *number*

Description	Test packets dropped because of invalid symmetric padding Must Be Zero (MBZ)
Context	oam twamp statistics dropped-test-packet invalid-symmetric-mbz *number*
Tree	invalid-symmetric-mbz
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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no-start-sessions *number*

Description	Test packets dropped because they arrived before Client-Control start-sessions message for the session
Context	oam twamp statistics dropped-test-packet no-start-sessions *number*
Tree	no-start-sessions
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reply-error *number*

Description	Test reply send errors.
Context	oam twamp statistics dropped-test-packet reply-error *number*
Tree	reply-error
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rejected-session

Description	Enter the rejected-session context Per reason code error statistics for test session rejection
Context	oam twamp statistics rejected-session
Tree	rejected-session
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-type-p *number*

Description	Sessions rejected because of non-DSCP type-p
Context	oam twamp statistics rejected-session bad-type-p *number*

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Tree	bad-type-p
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-source-ip-unreachable *number*

Description	Session rejected because Control-Client IP is not reachable
Context	oam twamp statistics rejected-session client-source-ip-unreachable *number*
Tree	client-source-ip-unreachable
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-session *number*

Description	Sessions rejected because duplicate session already exists
Context	oam twamp statistics rejected-session duplicate-session *number*
Tree	duplicate-session
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

invalid-ip-address-version *number*

Description	Sessions rejected because of bad IP version
Context	oam twamp statistics rejected-session invalid-ip-address-version *number*
Tree	invalid-ip-address-version
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-global-session-exceed *number*

Description	Sessions rejected because of global session limit exceeds
Context	oam twamp statistics rejected-session maximum-global-session-exceed *number*
Tree	maximum-global-session-exceed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-prefix-session-exceed *number*

Description	Sessions rejected because of prefix session limit exceeds
Context	oam twamp statistics rejected-session maximum-prefix-session-exceed *number*
Tree	maximum-prefix-session-exceed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

no-internal-resource *number*

Description	Sessions rejected because internal resource is not available
Context	oam twamp statistics rejected-session no-internal-resource *number*
Tree	no-internal-resource
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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non-local-ip-destination *number*

Description	Sessions rejected because destination IP in the TWAMP-Test packet from the Session-Sender was not local to the Session-Reflector
Context	oam twamp statistics rejected-session non-local-ip-destination *number*
Tree	non-local-ip-destination
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-zero-mbz-value *number*

Description	Sessions rejected because Must Be Zero (MBZ) values in TWAMP-Test packet were not zero
Context	oam twamp statistics rejected-session non-zero-mbz-value *number*
Tree	non-zero-mbz-value
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-zero-session-sender-sid *number*

Description	Sessions rejected because Session-Sender SID is not zero
Context	oam twamp statistics rejected-session non-zero-session-sender-sid *number*
Tree	non-zero-session-sender-sid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

padding-too-big *number*

Description	Sessions rejected because padding length requested is too large

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Context	oam twamp statistics rejected-session padding-too-big *number*
Tree	padding-too-big
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

refwait-timeout *number*

Description	Sessions dropped because Session-Reflector inactivity timer (REFWAIT) elapsed
Context	oam twamp statistics rejected-session refwait-timeout *number*
Tree	refwait-timeout
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout-too-large *number*

Description	Sessions rejected because timeout advertised is larger than reference wait (REFWAIT)
Context	oam twamp statistics rejected-session timeout-too-large *number*
Tree	timeout-too-large
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-port-in-use *number*

Description	Sessions rejected because UDP Port is not available
Context	oam twamp statistics rejected-session udp-port-in-use *number*
Tree	udp-port-in-use
Default	0

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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8 platform

```
platform
+  chassis
   -  clei-code string
   +  crypto-module
      -  entropy-provider-version string
      -  fips-provider-version string
   +  environment
      +  orientation keyword
   -  failure-reason string
   -  healthz
      -  last-unhealthy string
      -  status keyword
      -  unhealthy-count number
   -  hw-mac-address string
   +  id number
   -  last-boot-type string
   -  last-booted string
   -  last-booted-reason identityref
   -  last-change string
   -  manufactured-date string
   +  mode
      -  chassis-reboot-required boolean
      -  configured keyword
      -  running keyword
   -  oper-state keyword
   -  part-number string
   +  power
      -  control
         -  peak number
         -  required number
         -  used number
      -  fabric
         -  peak number
         -  required number
         -  used number
      -  fan-tray
         -  peak number
         -  required number
         -  used number
      -  linecard
         -  peak number
         -  required number
         -  used number
      -  total
         -  capacity number
         -  peak number
         -  required number
         -  used number
   -  rebooting-at string
   -  removable boolean
   +  secondary-mac-address string
   -  serial-number string
   -  slots number
   -  type string
+  control slot string
   +  cgroup name string
```


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```
      +  cpu-controller
         +  cpu-max number
         +  cpu-weight number
      -  cpuacct-statistics
         -  system number
         -  user number
      +  memory-controller
         +  memory-max number
      -  memory-statistics
         -  anon number
         -  anon-thp number
         -  current number
         -  current-swap number
         -  file number
         -  file-dirty number
         -  file-writeback number
         -  kernel-stack number
         -  memory-events
            -  high number
            -  low number
            -  max number
            -  oom number
            -  oom-kill number
         -  slab number
         -  sock number
   -  clei-code string
   -  cpu index (keyword | number)
      -  architecture keyword
      -  hardware-interrupt
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  idle
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  iowait
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  nice
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  software-interrupt
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  speed decimal-number
      -  system
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  total
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
```


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```
      - type string
      - user
         - average-1 number
         - average-15 number
         - average-5 number
         - instant number
   - disk name string
      - encrypted boolean
      - install-position keyword
      - model-number string
      - part-number string
      - partition name string
         - encrypted boolean
         - free number
         - label string
         - mount-point string
         - mount-status keyword
         - percent-used number
         - size number
         - used number
         - uuid string
      - serial-number string
      - size number
      - statistics
         - end-to-end-error number
         - io-errors number
         - life-left number
         - max-erase-count number
         - offline-uncorrectable-sectors-count number
         - percentage-used number
         - read-per-second decimal-number
         - reallocated-sectors number
         - soft-read-error-rate number
         - transfers-per-second decimal-number
         - utilization number
         - written-per-second decimal-number
      - type keyword
   - disk-encrypted boolean
   - failure-reason string
   - forwarding-plane
      - datapath
         - asic
            - resource name identityref
               - free-entries number
               - used-entries number
               - used-percent number
         - xdp
            - resource name identityref
               - free-entries number
               - used-entries number
               - used-percent number
      - fib-table
         - programming-progress
            - ip-routes
               - entries-remaining-to-add number
               - entries-remaining-to-modify number
               - last-sync-time string
            - mpls-labels
               - entries-remaining-to-add number
               - entries-remaining-to-modify number
               - last-sync-time string
            - next-hop-groups
               - entries-remaining-to-add number
               - entries-remaining-to-modify number
```


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```
                - last-sync-time string
             - tunnels
                - entries-remaining-to-add number
                - entries-remaining-to-modify number
                - last-sync-time string
       - tcam
          - resource name identityref
             - free number
             - programmed number
             - reserved number
    - healthz
       - last-unhealthy string
       - status keyword
       - unhealthy-count number
    + interface name identityref
       + admin-state keyword
       - oper-state keyword
    - last-booted string
    - last-booted-reason identityref
    - last-change string
    - last-switchover-reason
       - details string
       - trigger identityref
    - locator-state keyword
    - manufactured-date string
    - memory
       - free number
       - physical number
       - reserved number
       - utilization number
    - oper-state keyword
    - part-number string
    - power
       - required number
       - used number
    - process pid number
       - args string
       - cpu-utilization number
       - memory-usage number
       - memory-utilization number
       - name string
       - start-time string
    - rebooting-at string
    - removable boolean
    - role keyword
    - serial-number string
    - software-version string
    - temperature
       - alarm-status boolean
       - instant number
       - margin number
       - maximum number
       - maximum-time string
    - type string
+   fabric slot number
    + admin-state keyword
    - clei-code string
    - failure-reason string
    - healthz
       - last-unhealthy string
       - status keyword
       - unhealthy-count number
    - last-booted string
    - last-booted-reason identityref
```


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```
   -  last-change string
   -  locator-state keyword
   -  manufactured-date string
   -  oper-state keyword
   -  part-number string
   -  power
      -  required number
      -  used number
   -  rebooting-at string
   -  removable boolean
   -  serial-number string
   -  temperature
      -  alarm-status boolean
      -  instant number
      -  margin number
      -  maximum number
      -  maximum-time string
   -  type string
-  fan-tray id number
   -  clei-code string
   -  failure-reason string
   -  fan
      -  fan id number
         -  operational-speed number
         -  speed number
         -  speed-rpm number
      -  operational-speed number
      -  speed number
      -  speed-rpm number
   -  healthz
      -  last-unhealthy string
      -  status keyword
      -  unhealthy-count number
   -  last-booted string
   -  last-booted-reason identityref
   -  last-change string
   -  locator-state keyword
   -  manufactured-date string
   -  oper-reason keyword
   -  oper-state keyword
   -  part-number string
   -  power
      -  required number
      -  used number
   -  removable boolean
   -  serial-number string
   -  type string
-  icm id number
   -  clei-code string
   -  failure-reason string
   -  last-booted string
   -  last-booted-reason identityref
   -  last-change string
   -  manufactured-date string
   -  oper-state keyword
   -  part-number string
   -  removable boolean
   -  serial-number string
   -  type string
+  linecard slot number
   +  admin-state keyword
   -  clei-code string
   -  cpu index (keyword | number)
      -  architecture keyword
```


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```
      -  hardware-interrupt
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  idle
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  iowait
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  nice
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  software-interrupt
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  speed decimal-number
      -  system
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  total
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
      -  type string
      -  user
         -  average-1 number
         -  average-15 number
         -  average-5 number
         -  instant number
   -  failure-reason string
   +  forwarding-complex name keyword
      +  buffer-memory
         -  dram
            -  used number
         -  free number
         -  pfc-headroom-buffer
            -  free number
            -  used number
         -  reserved number
         -  sram
            -  free number
            -  used number
         -  used number
      -  control-plane-traffic
         -  dropped-aggregate number
         -  dropped-bytes-aggregate number
         -  queued-aggregate number
         -  queued-bytes-aggregate number
      -  core index number
         -  qos
            -  resource name identityref
```


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```
            -  free number
            -  used number
      -  counter-banks
         -  bank bank-id number
            -  application name identityref
               -  entries number
            -  bank-size keyword
            -  banks-in-group number
      -  datapath
         -  asic
            -  resource name identityref
               -  free-entries number
               -  max-entries number
               -  used-entries number
               -  used-high-watermark number
               -  used-last-high-watermark-time string
               -  used-percent number
               -  used-upper-threshold-exceeded boolean
         -  xdp
            -  resource name identityref
               -  free-entries number
               -  max-entries number
               -  used-entries number
               -  used-high-watermark number
               -  used-last-high-watermark-time string
               -  used-percent number
               -  used-upper-threshold-exceeded boolean
      -  drop-counters
         -  adverse-aggregate number
         -  congestion-aggregate number
         -  no-route number
         -  packet-processing-aggregate number
      +  fabric
         -  availability number
         -  consumed-capacity number
         -  operational-capacity number
         -  total-capacity number
         -  utilization-egress number
         -  utilization-ingress number
      -  fib-table
         -  next-hop-group index number
            -  backup-active boolean
            -  backup-next-hop-group reference
            -  next-hop id number
               -  next-hop number
               -  oper-state keyword
            -  oper-state keyword
         -  programming-progress
            -  ip-routes
               -  entries-remaining-to-add number
               -  entries-remaining-to-modify number
               -  last-sync-time string
            -  mpls-labels
               -  entries-remaining-to-add number
               -  entries-remaining-to-modify number
               -  last-sync-time string
            -  next-hop-groups
               -  entries-remaining-to-add number
               -  entries-remaining-to-modify number
               -  last-sync-time string
            -  tunnels
               -  entries-remaining-to-add number
               -  entries-remaining-to-modify number
               -  last-sync-time string
```


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```
-  healthz
   -  last-unhealthy string
   -  status keyword
   -  unhealthy-count number
-  interfaces string
-  last-booted string
-  last-booted-reason identityref
-  last-change string
-  load-balancing
   -  hash-user user keyword
      -  hash-polynomial number
-  mtu
   -  resource name identityref
      -  free number
      -  used number
-  oam
   -  resources
      -  service-activation-testhead
         -  bandwidth-allocated-kbps number
         -  bandwidth-free-kbps number
         -  bandwidth-total-kbps number
         -  stream-allocated number
         -  stream-free number
         -  stream-total number
-  oper-state keyword
+  p4rt
   +  id number
-  part-number string
+  pipeline index (number | keyword)
   -  datapath
      -  xdp
         -  resource name identityref
            -  free-entries number
            -  used-entries number
            -  used-percent number
   -  pipeline-counters
      -  host-interface-block
         -  packet-extraction
            -  extracted-octets number
            -  extracted-packets number
            -  extraction-reason reason identityref
               -  extracted-octets number
               -  extracted-packets number
-  qos
   -  resource name identityref
      -  free number
      -  used number
   -  resource-set-pool index number
      -  interface-group-resource-pool index number
         -  resource-group index number
            -  resource-sets
               -  free number
               -  used number
         -  resource-sets
            -  used number
         -  tier-0-schedulers
            -  free number
            -  used number
         -  tier-1-schedulers
            -  free number
            -  used number
      -  resource-groups
         -  free number
         -  used number
```


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```
            -  resource-sets
               -  free number
               -  used number
      -  removable boolean
      -  tcam
         -  resource name identityref
            -  free-dynamic number
            -  free-static number
            -  programmed number
            -  reserved number
   -  healthz
      -  last-unhealthy string
      -  status keyword
      -  unhealthy-count number
   -  last-booted string
   -  last-booted-reason identityref
   -  last-change string
   -  locator-state keyword
   -  manufactured-date string
   -  memory
      -  free number
      -  physical number
      -  reserved number
      -  utilization number
   -  oper-state keyword
   -  part-number string
   -  power
      -  required number
      -  used number
   -  rebooting-at string
   -  removable boolean
   -  serial-number string
   -  software-version string
   -  temperature
      -  alarm-status boolean
      -  instant number
      -  margin number
      -  maximum number
      -  maximum-time string
   -  type string
-  power-supply id number
   -  capacity number
   -  clei-code string
   -  failure-reason string
   -  fan
      -  speed number
      -  speed-rpm number
   -  feed id number
      -  current decimal-number
      -  voltage decimal-number
   -  healthz
      -  last-unhealthy string
      -  status keyword
      -  unhealthy-count number
   -  input
      -  current decimal-number
      -  power decimal-number
      -  voltage decimal-number
   -  last-booted string
   -  last-booted-reason identityref
   -  last-change string
   -  manufactured-date string
   -  oper-reason keyword
   -  oper-state keyword
```


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```
   -  output
      -  current decimal-number
      -  power decimal-number
      -  voltage decimal-number
   -  part-number string
   -  removable boolean
   -  serial-number string
   -  temperature
      -  alarm-status boolean
      -  instant number
      -  maximum number
      -  maximum-time string
   -  type string
+  qos
   +  bank-stats-mode keyword
   -  chassis-reboot-required boolean
   +  traffic-management-mode keyword
+  redundancy
   +  control-plane
      -  active-module keyword
      -  failover-time string
      +  synchronization
         -  last-synchronization string
         +  overlay
            -  last-synchronization string
            -  next-synchronization string
            +  synchronization-frequency number
         -  state keyword
         -  state-reason string
+  resource-management
   +  counter-banks
      -  chassis-reboot-required boolean
      +  forwarding-complex-type name keyword
         +  application name identityref
            +  bank-allocation bank-id number
   +  dynamic-load-balancing
      -  chassis-reboot-required boolean
      +  enable boolean
   +  dynamic-subinterfaces
      -  chassis-reboot-required boolean
      +  max-vlans number
   +  group-based-policy
      -  chassis-reboot-required boolean
      +  lpm-source-lookup boolean
      +  mac-lookup boolean
   +  ip-routes
      -  chassis-reboot-required boolean
      +  ipv4-lem-optimization boolean
      +  ipv6-lem-optimization boolean
   +  lag-pool
      -  chassis-reboot-required boolean
      +  max-member-count number
   +  mdb-profile
      -  chassis-reboot-required boolean
      +  id keyword
   +  tcam
   +  unified-forwarding-resources
      -  allocated-extra-ip-host-entries number
      -  allocated-extra-mac-entries number
      +  alpm keyword
      -  chassis-reboot-required boolean
      +  ipv6-128bit-lpm-entries number
      +  requested-extra-ip-host-entries number
      +  td4-mode keyword
```


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```
+  resource-monitoring
   +  core
      +  qos
         +  resource name identityref
            +  falling-threshold-log number
            +  rising-threshold-log number
   +  datapath
      +  asic
         +  resource name identityref
            +  upper-threshold-clear number
            +  upper-threshold-set number
      +  xdp
         +  resource name identityref
            +  upper-threshold-clear number
            +  upper-threshold-set number
   +  disk
      +  partition
         +  resource name identityref
            +  falling-threshold-log number
            +  rising-threshold-log number
   +  mtu
      +  resource name identityref
         +  falling-threshold-log number
         +  rising-threshold-log number
   +  qos
      +  resource name identityref
         +  falling-threshold-log number
         +  rising-threshold-log number
   +  tcam
      +  resource name identityref
         +  falling-threshold-log number
         +  rising-threshold-log number
-  trust
   -  attestation
      -  control slot string
         -  log-retrieval
   -  disk-encryption
      -  control slot string
   -  secure-boot
      -  control slot string
         -  oper-state keyword
         -  root-of-trust keyword
         -  uefi-variables variable string
            -  contents
               -  certificate index number
                  -  data binary
               -  sha1-hash index number
                  -  digest-value binary
               -  sha256-hash index number
                  -  digest-value binary
               -  sha256-hash-cert index number
                  -  digest-value binary
                  -  revocation-time string
         -  uefi-variables-update
            -  db-update-required boolean
            -  dbx-update-required boolean
            -  kek-update-required boolean
            -  modification-dataset-db-conflict boolean
            -  modification-dataset-dbx-conflict boolean
            -  modification-dataset-digest binary
            -  modification-dataset-present boolean
            -  modification-dataset-valid boolean
            -  pk-update-required boolean
            -  up-to-date boolean
```


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```
- tpm
   - control slot string
      - certificates name string
         - data binary
         - nv-index number
      - oper-state keyword
      - tpm20-pcr-bank tpm20-hash-algo string
         - pcr-index number
```


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8.1 platform Descriptions

platform

Description	Enter the platform context Enclosing container for platform components
Context	platform
Tree	platform
Configurable	True
Platforms	Supported on all platforms

chassis

Description	Enter the chassis context Top-level container for chassis configuration and state
Context	platform chassis
Tree	chassis
Configurable	True
Platforms	Supported on all platforms

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform chassis clei-code *string*
Tree	clei-code
Configurable	False
Platforms	Supported on all platforms

crypto-module

Description	Enter the crypto-module context Top level container for crypto module state
Context	platform chassis crypto-module
Tree	crypto-module

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entropy-provider-version *string*

Description	Version of the entropy provider installed
Context	platform chassis crypto-module entropy-provider-version *string*
Tree	entropy-provider-version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fips-provider-version *string*

Description	Version of the fips provider installed
Context	platform chassis crypto-module fips-provider-version *string*
Tree	fips-provider-version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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environment

Description	Enter the environment context
Context	platform chassis environment
Tree	environment
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D5, 7220 IXR-H4

orientation *keyword*

Description	The orientation of the chassis
Context	platform chassis environment orientation *keyword*
Tree	orientation
Default	horizontal
Options	• vertical-ports-up The chassis is oriented vertically, with ports facing up • vertical-ports-down The chassis is oriented vertically, with ports facing down • horizontal The chassis is oriented horizontally
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D5, 7220 IXR-H4

failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform chassis failure-reason *string*
Tree	failure-reason
Configurable	False
Platforms	Supported on all platforms

healthz

Description	Enter the healthz context

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The health of the component

The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.

Context platform chassis healthz

Tree healthz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform chassis healthz last-unhealthy *string*

Tree last-unhealthy

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

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Context platform chassis healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context platform chassis healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hw-mac-address *string*

Description	The chassis MAC address Read from hardware, or derived from the systems UUID
Context	platform chassis hw-mac-address *string*
Tree	hw-mac-address
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	A user configured chassis ID This value is not used by the system, but is provided for user convenience.
Context	platform chassis id *number*
Tree	id
Configurable	True
Platforms	Supported on all platforms

last-boot-type *string*

Description	The type of boot the chassis initialized from This field indicates what type of reboot occurred, whether it be warm, normal, or otherwise.
Context	platform chassis last-boot-type *string*
Tree	last-boot-type
Configurable	False
Platforms	Supported on all platforms

last-booted *string*

Description	The date and time this component last booted For components that do not boot, this is the time the component was last discovered by the active control module
Context	platform chassis last-booted *string*
Tree	last-booted
String Length	20 to 32

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Configurable	False
Platforms	Supported on all platforms

last-booted-reason *identityref*

Description	The reason this component last booted or rebooted For components without the ability to 'boot' this field is never populated
Context	platform chassis last-booted-reason *identityref*
Tree	last-booted-reason
Options	• user-initiated-reboot A user initiated the reboot directly via a management interface • power-failure The system rebooted the component due to insufficient power • critical-error The system rebooted the component due to an internal critical error
Configurable	False
Platforms	Supported on all platforms

last-change *string*

Description	The date and time this component last changed state
Context	platform chassis last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

manufactured-date *string*

Description	The date this component was manufactured
Context	platform chassis manufactured-date *string*
Tree	manufactured-date
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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mode

Description Enter the mode context

Top level container for chassis mode state

Context platform chassis mode

Tree mode

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

chassis-reboot-required *boolean*

Description Reads true if the user has committed a change to configurable chassis type value and has not yet restarted chassis. The operational value is still the values initialized at the last chassis restart.

Context platform chassis mode chassis-reboot-required *boolean*

Tree chassis-reboot-required

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

configured *keyword*

Description The configured chassis mode, which takes effect after a reboot if it differs from the current running mode.

Context platform chassis mode configured *keyword*

Tree configured

Options

- gen2cp-only

  The chassis will be running in j2cp only mode
- gen3-only

  The chassis will be running in j3 only mode
- gen2cp-gen3-mixed

  The chassis will be running in both j2cp and j3 mode

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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running *keyword*

Description Currrent chassis mode

Context platform chassis mode running *keyword*

Tree running

Options

- gen2cp-only
  The chassis will be running in j2cp only mode
- gen3-only
  The chassis will be running in j3 only mode
- gen2cp-gen3-mixed
  The chassis will be running in both j2cp and j3 mode

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

oper-state *keyword*

Description The operational state of this component

Context platform chassis oper-state *keyword*

Tree oper-state

Options

- up
  Component or process is operational
- down
  Component or process is not operational
- empty
  Component slot is empty
- downloading
  Component is downloading image into memory
- booting
  Component is booting downloaded image
- starting
  Component image operational, application processes starting
- failed
  Component or process has failed
- synchronizing
  Component is currently being synchronized

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- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

part-number *string*

Description Part number for this component

Context platform chassis part-number *string*

Tree part-number

Configurable False

Platforms Supported on all platforms

power

Description Enter the power context

Top-level container for chassis-wide power state

Context platform chassis power

Tree power

Configurable True

Platforms Supported on all platforms

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control

Description Enter the control context

Top-level container for power usage of control modules

Context platform chassis power control

Tree control

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

peak *number*

Description Peak power used

Context platform chassis power control peak *number*

Tree peak

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description Power required to power on all present admin enabled components as part of power management

Context platform chassis power control required *number*

Tree required

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description Used power

Context platform chassis power control used *number*

Tree used

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

fabric

Description	Enter the fabric context Top-level container for power usage of fabric modules
Context	platform chassis power fabric
Tree	fabric
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

peak *number*

Description	Peak power used
Context	platform chassis power fabric peak *number*
Tree	peak
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	Power required to power on all present admin enabled components as part of power management
Context	platform chassis power fabric required *number*
Tree	required
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	Used power

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Context	platform chassis power fabric used *number*
Tree	used
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

fan-tray

Description	Enter the fan-tray context Top-level container for power usage of fan-trays
Context	platform chassis power fan-tray
Tree	fan-tray
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

peak *number*

Description	Peak power used
Context	platform chassis power fan-tray peak *number*
Tree	peak
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	Power required to power on all present admin enabled components as part of power management
Context	platform chassis power fan-tray required *number*
Tree	required
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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used *number*

Description	Used power
Context	platform chassis power fan-tray used *number*
Tree	used
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

linecard

Description	Enter the linecard context Top-level container for power usage of linecard modules
Context	platform chassis power linecard
Tree	linecard
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

peak *number*

Description	Peak power used
Context	platform chassis power linecard peak *number*
Tree	peak
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	Power required to power on all present admin enabled components as part of power management
Context	platform chassis power linecard required *number*
Tree	required
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	Used power
Context	platform chassis power linecard used *number*
Tree	used
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

total

Description	Enter the total context Top-level container for total power usage and capacity
Context	platform chassis power total
Tree	total
Configurable	False
Platforms	Supported on all platforms

capacity *number*

Description	Total power capacity provided by all power supplies
Context	platform chassis power total capacity *number*
Tree	capacity
Configurable	False
Platforms	Supported on all platforms

peak *number*

Description	Peak power used
Context	platform chassis power total peak *number*
Tree	peak
Configurable	False

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Platforms	Supported on all platforms

required *number*

Description	Power required to power on all present admin enabled components as part of power management
Context	platform chassis power total required *number*
Tree	required
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	Used power
Context	platform chassis power total used *number*
Tree	used
Configurable	False
Platforms	Supported on all platforms

rebooting-at *string*

Description	Indicates the date and time this component will reboot If empty, no delayed reboots are queued for this component. A non empty value implies that a delayed reboot operation has been triggered for this component, which can be aborted using 'tools platform <component> reboot cancel'.
Context	platform chassis rebooting-at *string*
Tree	rebooting-at
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

removable *boolean*

Description	Details if this component can be removed from the system

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Context	platform chassis removable *boolean*
Tree	removable
Configurable	False
Platforms	Supported on all platforms

secondary-mac-address *string*

Description	MAC address programmed as a secondary terminating MAC address on every IP interface, across all network instances If an IP packet is received on a routed subinterface and it arrives with a DMAC equal to the secondary-mac-address then it is terminated and forwarded exactly the same way it would be forwarded if it had arrived on this subinterface with a DMAC equal to the subinterface MAC address.
Context	platform chassis secondary-mac-address *string*
Tree	secondary-mac-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

serial-number *string*

Description	The serial number for this component
Context	platform chassis serial-number *string*
Tree	serial-number
Configurable	False
Platforms	Supported on all platforms

slots *number*

Description	The number of line card slots supported by the chassis
Context	platform chassis slots *number*
Tree	slots
Configurable	False
Platforms	Supported on all platforms

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type *string*

Description	The chassis type
Context	platform chassis type *string*
Tree	type
Configurable	False
Platforms	Supported on all platforms

control slot *string*

Description	Top-level container for control module configuration and state
Context	platform control slot *string*
Tree	control
Configurable	True
Platforms	Supported on all platforms

slot *string*

Description	Slot identifier for the control module This is set to 'A' for systems without removable control modules.
Context	platform control slot *string*
Configurable	True
Platforms	Supported on all platforms

cgroup name *string*

Description	List of cgroups present in the system
Context	platform control slot *string* cgroup name *string*
Tree	cgroup
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the cgroup, as defined by its directory location in the filesystem relative to the cgroup root.

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Context	platform control slot *string* cgroup name *string*
Configurable	True
Platforms	Supported on all platforms

cpu-controller

Description	Enter the cpu-controller context Top-level container for cgroup cpu controller configuration
Context	platform control slot *string* cgroup name *string* cpu-controller
Tree	cpu-controller
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cpu-max *number*

Description	CPU bandwidth limit for the cgroup. Write to this leaf to set the CPU bandwidth limit (cpu.max) for the cgroup. Setting this leaf to 0 means no limit. The PERIOD is set to 100000. Note: The configured quota is multiplied by number of available CPUs internally before setting the final value to cpu.max to scale across available system CPU resources.
Context	platform control slot *string* cgroup name *string* cpu-controller cpu-max *number*
Tree	cpu-max
Range	0 to 100000
Default	0
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cpu-weight *number*

Description CPU bandwidth weight for the cgroup. Write to this leaf to set the CPU bandwidth weight (cpu.weight) for the cgroup. The default value is 100.

Context platform control slot *string* cgroup name *string* cpu-controller cpu-weight *number*

Tree cpu-weight

Range 1 to 10000

Default 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cpuacct-statistics

Description Enter the cpuacct-statistics context

Top-level container for cgroup cpuacct statistics

Context platform control slot *string* cgroup name *string* cpuacct-statistics

Tree cpuacct-statistics

Configurable False

Platforms Supported on all platforms

system *number*

Description CPU usage user system

Context platform control slot *string* cgroup name *string* cpuacct-statistics system *number*

Tree system

Units useconds

Configurable False

Platforms Supported on all platforms

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user *number*

Description	CPU usage user mode
Context	platform control slot *string* cgroup name *string* cpuacct-statistics user *number*
Tree	user
Units	useconds
Configurable	False
Platforms	Supported on all platforms

memory-controller

Description	Enter the memory-controller context Top-level container for cgroup memory controller configuration
Context	platform control slot *string* cgroup name *string* memory-controller
Tree	memory-controller
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

memory-max *number*

Description	Memory limit for the cgroup. Write to this leaf to set the memory usage hard limit (memory.max) for the cgroup. Setting this leaf to 0 means no limit.
Context	platform control slot *string* cgroup name *string* memory-controller memory-max *number*
Tree	memory-max
Default	0
Units	bytes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

memory-statistics

Description Enter the memory-statistics context

Top-level container for cgroup memory statistics

Context platform control slot *string* cgroup name *string* memory-statistics

Tree memory-statistics

Configurable False

Platforms Supported on all platforms

anon *number*

Description Amount of memory used in anonymous mappings such as brk(), sbrk(), and mmap(MAP_ANONYMOUS)

Context platform control slot *string* cgroup name *string* memory-statistics anon *number*

Tree anon

Units bytes

Configurable False

Platforms Supported on all platforms

anon-thp *number*

Description Amount of memory used in anonymous mappings backed by transparent hugepages

Context platform control slot *string* cgroup name *string* memory-statistics anon-thp *number*

Tree anon-thp

Units bytes

Configurable False

Platforms Supported on all platforms

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current *number*

Description	The total amount of memory currently being used by the cgroup and its descendants. Read from memory.current
Context	platform control slot *string* cgroup name *string* memory-statistics current *number*
Tree	current
Units	bytes
Configurable	False
Platforms	Supported on all platforms

current-swap *number*

Description	The total amount of swap currently being used by the cgroup and its descendants. Read from memory.swap.current
Context	platform control slot *string* cgroup name *string* memory-statistics current-swap *number*
Tree	current-swap
Units	bytes
Configurable	False
Platforms	Supported on all platforms

file *number*

Description	Amount of memory used to cache filesystem data, including tmpfs and shared memory
Context	platform control slot *string* cgroup name *string* memory-statistics file *number*
Tree	file
Units	bytes
Configurable	False
Platforms	Supported on all platforms

file-dirty *number*

Description	Amount of cached filesystem data that was modified but not yet written back to disk
Context	platform control slot *string* cgroup name *string* memory-statistics file-dirty *number*

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Tree	file-dirty
Units	bytes
Configurable	False
Platforms	Supported on all platforms

file-writeback *number*

Description	Amount of cached filesystem data that was modified and is currently being written back to disk
Context	platform control slot *string* cgroup name *string* memory-statistics file-writeback *number*
Tree	file-writeback
Units	bytes
Configurable	False
Platforms	Supported on all platforms

kernel-stack *number*

Description	Amount of memory allocated to kernel stacks
Context	platform control slot *string* cgroup name *string* memory-statistics kernel-stack *number*
Tree	kernel-stack
Units	bytes
Configurable	False
Platforms	Supported on all platforms

memory-events

Description	Enter the memory-events context Top-level container for cgroup memory events
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events
Tree	memory-events
Configurable	False
Platforms	Supported on all platforms

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high *number*

Description	The number of times processes of the cgroup are throttled and routed to perform direct memory reclaim because the high memory boundary was exceeded.
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events high *number*
Tree	high
Configurable	False
Platforms	Supported on all platforms

low *number*

Description	The number of times the cgroup is reclaimed due to high memory pressure even though its usage is under the low boundary.
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events low *number*
Tree	low
Configurable	False
Platforms	Supported on all platforms

max *number*

Description	The number of times the cgroup’s memory usage was about to go over the max boundary
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events max *number*
Tree	max
Configurable	False
Platforms	Supported on all platforms

oom *number*

Description	The number of time the cgroup’s memory usage had reached the limit and allocation was about to fail
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events oom *number*
Tree	oom

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Configurable	False
Platforms	Supported on all platforms

oom-kill *number*

Description	The number of processes belonging to this cgroup killed by any kind of out-of-memory killer
Context	platform control slot *string* cgroup name *string* memory-statistics memory-events oom-kill *number*
Tree	oom-kill
Configurable	False
Platforms	Supported on all platforms

slab *number*

Description	Amount of memory used for storing in-kernel data structures
Context	platform control slot *string* cgroup name *string* memory-statistics slab *number*
Tree	slab
Units	bytes
Configurable	False
Platforms	Supported on all platforms

sock *number*

Description	Amount of memory used in network transmission buffers
Context	platform control slot *string* cgroup name *string* memory-statistics sock *number*
Tree	sock
Units	bytes
Configurable	False
Platforms	Supported on all platforms

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform control slot *string* clei-code *string*

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Tree	clei-code
Configurable	False
Platforms	Supported on all platforms

cpu index *(keyword | number)*

Description	List of all CPUs in the system
Context	platform control slot *string* cpu index *(keyword | number)*
Tree	cpu
Configurable	False
Platforms	Supported on all platforms

index *(keyword | number)*

Description	CPU index for each processor core on the system On a single-core system, the index should be zero. The 'all' index signifies an aggregation of the CPU utilization statistics over all cores in the system.
Context	platform control slot *string* cpu index *(keyword | number)*
Options	• all Index value indicating all CPUs in the system
Configurable	False
Platforms	Supported on all platforms

architecture *keyword*

Description	Architecture supported by the CPU
Context	platform control slot *string* cpu index *(keyword | number)* architecture *keyword*
Tree	architecture
Options	• x86_64 • aarch64
Configurable	False
Platforms	Supported on all platforms

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hardware-interrupt

Description	Enter the hardware-interrupt context Time spent servicing hardware interrupts
Context	platform control slot *string* cpu index *(keyword | number)* hardware-interrupt
Tree	hardware-interrupt
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* hardware-interrupt average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* hardware-interrupt average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* hardware-interrupt average-5 *number*
Tree	average-5
Range	0 to 100

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Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* hardware-interrupt instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

idle

Description	Enter the idle context Time spent idle
Context	platform control slot *string* cpu index *(keyword | number)* idle
Tree	idle
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* idle average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* idle average-15 *number*

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Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* idle average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* idle instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

iowait

Description	Enter the iowait context Time spent idle, waiting for an outstanding disk I/O request
Context	platform control slot *string* cpu index *(keyword | number)* iowait
Tree	iowait
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute

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Context	platform control slot *string* cpu index *(keyword | number)* iowait average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* iowait average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* iowait average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* iowait instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

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nice

Description	Enter the nice context Time spent running low-priority (niced) user processes
Context	platform control slot *string* cpu index *(keyword | number)* nice
Tree	nice
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* nice average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* nice average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* nice average-5 *number*
Tree	average-5
Range	0 to 100

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Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* nice instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

software-interrupt

Description	Enter the software-interrupt context Time spent servicing software interrupts
Context	platform control slot *string* cpu index *(keyword | number)* software-interrupt
Tree	software-interrupt
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* software-interrupt average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* software-interrupt average-15 *number*

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Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* software-interrupt average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* software-interrupt instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

speed *decimal-number*

Description	Capable speed of the CPU
Context	platform control slot *string* cpu index *(keyword | number)* speed *decimal-number*
Tree	speed
Units	gigahertz
Configurable	False
Platforms	Supported on all platforms

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system

Description	Enter the system context Time spent executing at the system level This can otherwise be known as kernel time, and does not include time spent servicing hardware and software interrupts.
Context	platform control slot *string* cpu index *(keyword | number)* system
Tree	system
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* system average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform control slot *string* cpu index *(keyword | number)* system average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* system average-5 *number*
Tree	average-5

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Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* system instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

total

Description	Enter the total context Total CPU utilization
Context	platform control slot *string* cpu index *(keyword | number)* total
Tree	total
Configurable	False
Platforms	Supported on all platforms

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform control slot *string* cpu index *(keyword | number)* total average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes

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Context	platform control slot *string* cpu index *(keyword | number)* total average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform control slot *string* cpu index *(keyword | number)* total average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* total instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

type *string*

Description	Model name of the CPU
Context	platform control slot *string* cpu index *(keyword | number)* type *string*
Tree	type
Configurable	False
Platforms	Supported on all platforms

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user

Description Enter the user context

Time spent executing at the user level

This can otherwise be known as application or user space time.

Context platform control slot *string* cpu index *(keyword | number)* user

Tree user

Configurable False

Platforms Supported on all platforms

average-1 *number*

Description The arithmetic mean value of this statistic over the last minute

Context platform control slot *string* cpu index *(keyword | number)* user average-1 *number*

Tree average-1

Range 0 to 100

Configurable False

Platforms Supported on all platforms

average-15 *number*

Description The arithmetic mean value of this statistic over the last fifteen minutes

Context platform control slot *string* cpu index *(keyword | number)* user average-15 *number*

Tree average-15

Range 0 to 100

Configurable False

Platforms Supported on all platforms

average-5 *number*

Description The arithmetic mean value of this statistic over the last five minutes

Context platform control slot *string* cpu index *(keyword | number)* user average-5 *number*

Tree average-5

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Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

instant *number*

Description	The instantaneous percentage value
Context	platform control slot *string* cpu index *(keyword | number)* user instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

disk name *string*

Description	List of disks present in the system
Context	platform control slot *string* disk name *string*
Tree	disk
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	Name of the disk, as defined by its physical location in the system
Context	platform control slot *string* disk name *string*
Configurable	False
Platforms	Supported on all platforms

encrypted *boolean*

Description	Indicates if the disk is encrypted
Context	platform control slot *string* disk name *string* encrypted *boolean*
Tree	encrypted
Configurable	False
Platforms	7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220

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IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

install-position *keyword*

Description Physical installation position of the compactflash disk on the control card

Context platform control slot *string* disk name *string* install-position *keyword*

Tree install-position

Options
- internal
- external

Configurable False

Platforms Supported on all platforms

model-number *string*

Description Model name of the disk

Context platform control slot *string* disk name *string* model-number *string*

Tree model-number

Configurable False

Platforms Supported on all platforms

part-number *string*

Description Nokia orderable 3HE part-number matching the capacity of the installed SD card

Note: The returned part-number is based on the capacity of the SD card, and does not indicate the installed SD card is a Nokia supplied component.

Context platform control slot *string* disk name *string* part-number *string*

Tree part-number

Configurable False

Platforms Supported on all platforms

partition name *string*

Description List of partitions available on this disk

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Context	platform control slot *string* disk name *string* partition name *string*
Tree	partition
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	Name of the partition
Context	platform control slot *string* disk name *string* partition name *string*
Configurable	False
Platforms	Supported on all platforms

encrypted *boolean*

Description	Indicates if the partition is encrypted using disk encryption
Context	platform control slot *string* disk name *string* partition name *string* encrypted *boolean*
Tree	encrypted
Configurable	False
Platforms	7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description	Space free on the partition
Context	platform control slot *string* disk name *string* partition name *string* free *number*
Tree	free
Units	bytes
Configurable	False
Platforms	Supported on all platforms

label *string*

Description	Label name of the partition

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Context	platform control slot *string* disk name *string* partition name *string* label *string*
Tree	label
Configurable	False
Platforms	Supported on all platforms

mount-point *string*

Description	Path to where this partition is mounted
Context	platform control slot *string* disk name *string* partition name *string* mount-point *string*
Tree	mount-point
Configurable	False
Platforms	Supported on all platforms

mount-status *keyword*

Description	Current mount status of this partition
Context	platform control slot *string* disk name *string* partition name *string* mount-status *keyword*
Tree	mount-status
Options	• ro Partition is currently mounted read-only • rw Partition is currently mounted read-write
Configurable	False
Platforms	Supported on all platforms

percent-used *number*

Description	Percentage of the partition in use
Context	platform control slot *string* disk name *string* partition name *string* percent-used *number*
Tree	percent-used
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

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size *number*

Description	Size of the partition
Context	platform control slot *string* disk name *string* partition name *string* size *number*
Tree	size
Units	bytes
Configurable	False
Platforms	Supported on all platforms

used *number*

Description	Space used on the partition
Context	platform control slot *string* disk name *string* partition name *string* used *number*
Tree	used
Units	bytes
Configurable	False
Platforms	Supported on all platforms

uuid *string*

Description	UUID of the partition
Context	platform control slot *string* disk name *string* partition name *string* uuid *string*
Tree	uuid
Configurable	False
Platforms	Supported on all platforms

serial-number *string*

Description	Serial number of the disk
Context	platform control slot *string* disk name *string* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	Supported on all platforms

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size *number*

Description	Total size of the disk
Context	platform control slot *string* disk name *string* size *number*
Tree	size
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Top-level container for disk statistics
Context	platform control slot *string* disk name *string* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

end-to-end-error *number*

Description	Count of parity errors which occur in the data path to the media. SMART ID 184.
Context	platform control slot *string* disk name *string* statistics end-to-end-error *number*
Tree	end-to-end-error
Configurable	False
Platforms	Supported on all platforms

io-errors *number*

Description	Enter the io-errors context
Context	platform control slot *string* disk name *string* statistics io-errors *number*
Tree	io-errors
Configurable	False
Platforms	Supported on all platforms

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life-left *number*

Description	Indicates the approximate SSD life left, in terms of program/erase cycles or available reserved blocks. A normalized value of 100 represents a new drive, with a threshold value at 10 indicating a need for replacement. A value of 0 may mean that the drive is operating in read-only mode to allow data recovery. SMART ID 231.
Context	platform control slot *string* disk name *string* statistics life-left *number*
Tree	life-left
Configurable	False
Platforms	Supported on all platforms

max-erase-count *number*

Description	Enter the max-erase-count context
Context	platform control slot *string* disk name *string* statistics max-erase-count *number*
Tree	max-erase-count
Configurable	False
Platforms	Supported on all platforms

offline-uncorrectable-sectors-count *number*

Description	The total count of uncorrectable errors when reading/writing a sector. SMART ID 198.
Context	platform control slot *string* disk name *string* statistics offline-uncorrectable-sectors-count *number*
Tree	offline-uncorrectable-sectors-count
Configurable	False
Platforms	Supported on all platforms

percentage-used *number*

Description	Contains a vendor specific estimate of the percentage of NVM subsystem life used based on the actual usage and the manufacturer's prediction of NVM life. A value of 100 indicates that the estimated endurance of the NVM in the NVM subsystem has been consumed, but may not indicate an NVM subsystem failure. The value is allowed to exceed 100. Percentages greater than 254 shall be represented as 255.

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Context	platform control slot *string* disk name *string* statistics percentage-used *number*
Tree	percentage-used
Configurable	False
Platforms	Supported on all platforms

read-per-second *decimal-number*

Description	Indicates the amount of data read from the device per second
Context	platform control slot *string* disk name *string* statistics read-per-second *decimal-number*
Tree	read-per-second
Units	bytes
Configurable	False
Platforms	Supported on all platforms

reallocated-sectors *number*

Description	Count of reallocated sectors. The raw value represents a count of the bad sectors that have been found and remapped. SMART ID 5.
Context	platform control slot *string* disk name *string* statistics reallocated-sectors *number*
Tree	reallocated-sectors
Configurable	False
Platforms	Supported on all platforms

soft-read-error-rate *number*

Description	Uncorrected read errors reported to the operating system. SMART ID 201.
Context	platform control slot *string* disk name *string* statistics soft-read-error-rate *number*
Tree	soft-read-error-rate
Configurable	False
Platforms	Supported on all platforms

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transfers-per-second *decimal-number*

Description	Indicates the number of transfers per second that were issued to the device A transfer is an I/O request to the device. Multiple logical requests can be combined into a single I/O request to the device. A transfer is of indeterminate size.
Context	platform control slot *string* disk name *string* statistics transfers-per-second *decimal-number*
Tree	transfers-per-second
Configurable	False
Platforms	Supported on all platforms

utilization *number*

Description	The current tps utilization of the disk, expressed as a percentage
Context	platform control slot *string* disk name *string* statistics utilization *number*
Tree	utilization
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

written-per-second *decimal-number*

Description	Indicates the amount of data written to the device per second
Context	platform control slot *string* disk name *string* statistics written-per-second *decimal-number*
Tree	written-per-second
Units	bytes
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	Type of disk
Context	platform control slot *string* disk name *string* type *keyword*
Tree	type
Options	• compactflash

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- ssd
- hdd
- usb
- mmc

Configurable False

Platforms Supported on all platforms

disk-encrypted *boolean*

Description Indicates if the disk is encrypted on a control module

Context platform control slot *string* disk-encrypted *boolean*

Tree disk-encrypted

Configurable False

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failure-reason *string*

Description The reason the component transitioned to a failed state

Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state

Context platform control slot *string* failure-reason *string*

Tree failure-reason

Configurable False

Platforms Supported on all platforms

forwarding-plane

Description Enter the forwarding-plane context

Container for state related to the datapath on the control card

Context platform control slot *string* forwarding-plane

Tree forwarding-plane

Configurable False

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Platforms Supported on all platforms

datapath

Description Enter the datapath context

Container for monitoring datapath resources of XDP CPM

Context platform control slot *string* forwarding-plane datapath

Tree datapath

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

asic

Description Enter the asic context

Container for monitoring datapath resources that are typically ASIC specific

Context platform control slot *string* forwarding-plane datapath asic

Tree asic

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description List of ASIC-specific datapath resources.

Context platform control slot *string* forwarding-plane datapath asic resource name *identityref*

Tree resource

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the ASIC-specific datapath resource

Context platform control slot *string* forwarding-plane datapath asic resource name *identityref*

Options

- asic-cpm-datapath-resources

  Base type for XDP-CPM resources that model an ASIC specific resource

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-entries *number*

Description The number of entries that are currently free

Context platform control slot *string* forwarding-plane datapath asic resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-entries *number*

Description The number of entries that are currently used

Context platform control slot *string* forwarding-plane datapath asic resource name *identityref* used-entries *number*

Tree used-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description The percentage of the resource that is currently used

Context platform control slot *string* forwarding-plane datapath asic resource name *identityref* used-percent *number*

Tree used-percent

Range 0 to 100

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

xdp

Description Enter the xdp context

Container for monitoring datapath resources that typically generic

Context platform control slot *string* forwarding-plane datapath xdp

Tree xdp

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description List of generic datapath resources.

Context platform control slot *string* forwarding-plane datapath xdp resource name *identityref*

Tree resource

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the XDP datapath resource

Context platform control slot *string* forwarding-plane datapath xdp resource name *identityref*

Options

- xdp-cpm-datapath-resources

  Base type for XDP-CPM datapath resources that are generic in concept

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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free-entries *number*

Description	The number of entries that are currently free
Context	platform control slot *string* forwarding-plane datapath xdp resource name *identityref* free-entries *number*
Tree	free-entries
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description	The number of entries that are currently used
Context	platform control slot *string* forwarding-plane datapath xdp resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description	The percentage of the resource that is currently used
Context	platform control slot *string* forwarding-plane datapath xdp resource name *identityref* used-percent *number*
Tree	used-percent
Range	0 to 100
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fib-table

Description	Enter the fib-table context A representation of the IP FIB table maintained by each control card
Context	platform control slot *string* forwarding-plane fib-table
Tree	fib-table
Configurable	False
Platforms	Supported on all platforms

programming-progress

Description	Enter the programming-progress context State that shows the FIB programming progress of the forwarding complex
Context	platform control slot *string* forwarding-plane fib-table programming-progress
Tree	programming-progress
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-routes

Description	Enter the ip-routes context Container for the FIB programming state of IP route entries
Context	platform control slot *string* forwarding-plane fib-table programming-progress ip-routes

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Tree	ip-routes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description	The number of entries that need to be created in order to reach synchronization with the CPM
Context	platform control slot *string* forwarding-plane fib-table programming-progress ip-routes entries-remaining-to-add *number*
Tree	entries-remaining-to-add
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform control slot *string* forwarding-plane fib-table programming-progress ip-routes entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description The time when the forwarding complex last reached sync with the control plane

A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero

Context platform control slot *string* forwarding-plane fib-table programming-progress ip-routes last-sync-time *string*

Tree last-sync-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-labels

Description Enter the mpls-labels context

Container for the FIB programming state of ILM entries

Context platform control slot *string* forwarding-plane fib-table programming-progress mpls-labels

Tree mpls-labels

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description The number of entries that need to be created in order to reach synchronization with the CPM

Context platform control slot *string* forwarding-plane fib-table programming-progress mpls-labels entries-remaining-to-add *number*

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Tree	entries-remaining-to-add
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform control slot *string* forwarding-plane fib-table programming-progress mpls-labels entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description	The time when the forwarding complex last reached sync with the control plane A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero
Context	platform control slot *string* forwarding-plane fib-table programming-progress mpls-labels last-sync-time *string*
Tree	last-sync-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-groups

Description	Enter the next-hop-groups context Container for the FIB programming state of next-hop-group (NHG) entries
Context	platform control slot *string* forwarding-plane fib-table programming-progress next-hop-groups

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Tree	next-hop-groups
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description	The number of entries that need to be created in order to reach synchronization with the CPM
Context	platform control slot *string* forwarding-plane fib-table programming-progress next-hop-groups entries-remaining-to-add *number*
Tree	entries-remaining-to-add
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform control slot *string* forwarding-plane fib-table programming-progress next-hop-groups entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description The time when the forwarding complex last reached sync with the control plane

A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero

Context platform control slot *string* forwarding-plane fib-table programming-progress next-hop-groups last-sync-time *string*

Tree last-sync-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnels

Description Enter the tunnels context

Container for the FIB programming state of tunnels

Context platform control slot *string* forwarding-plane fib-table programming-progress tunnels

Tree tunnels

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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entries-remaining-to-add *number*

Description The number of entries that need to be created in order to reach synchronization with the CPM

Context platform control slot *string* forwarding-plane fib-table programming-progress tunnels entries-remaining-to-add *number*

Tree entries-remaining-to-add

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description The number of entries that need to be modified in order to reach synchronization with the CPM

Context platform control slot *string* forwarding-plane fib-table programming-progress tunnels entries-remaining-to-modify *number*

Tree entries-remaining-to-modify

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description The time when the forwarding complex last reached sync with the control plane

A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero

Context platform control slot *string* forwarding-plane fib-table programming-progress tunnels last-sync-time *string*

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Tree	last-sync-time
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam

Description	Enter the tcam context
Context	platform control slot *string* forwarding-plane tcam
Tree	tcam
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description	Enter the resource list instance
Context	platform control slot *string* forwarding-plane tcam resource name *identityref*
Tree	resource
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *identityref*

Description The name of the TCAM resource

Context platform control slot *string* forwarding-plane tcam resource name *identityref*

Options

- tcam-cpm-resources

  Base type for XDP-CPM TCAM resources

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of available and unused TCAM entries for the entry type, assuming that the maximum number of dynamic TCAM slices are allocated

Context platform control slot *string* forwarding-plane tcam resource name *identityref* free *number*

Tree free

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

programmed *number*

Description The number of TCAM entries belonging to this resource that are currently programmed into hardware. When the number of programmed entries equals the number of reserved entries HW programming of this resource type has finished.

Context platform control slot *string* forwarding-plane tcam resource name *identityref* programmed *number*

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Tree	programmed
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reserved *number*

Description	The number of TCAM entries that are currently reserved in this resource pool. Reservation happens when a configuration change is committed. Reserved entries may not be programmed yet if the commit has just occurred.
Context	platform control slot *string* forwarding-plane tcam resource name *identityref* reserved *number*
Tree	reserved
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

healthz

Description	Enter the healthz context The health of the component The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.
Context	platform control slot *string* healthz
Tree	healthz
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform control slot *string* healthz last-unhealthy *string*

Tree last-unhealthy

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform control slot *string* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

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- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context platform control slot *string* healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *identityref*

Description Enter the interface list instance

Context platform control slot *string* interface name *identityref*

Tree interface

Configurable True

Platforms Supported on all platforms

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name *identityref*

Description Name of a specific control module interface

Context platform control slot *string* interface name *identityref*

Options

- usb

  The single USB type A interface present on the control module

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Set the administrative state of this interface

Context platform control slot *string* interface name *identityref* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

oper-state *keyword*

Description Indicates the current operational state of this interface

Context platform control slot *string* interface name *identityref* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image

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- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

last-booted *string*

Description The date and time this component last booted

For components that do not boot, this is the time the component was last discovered by the active control module

Context platform control slot *string* last-booted *string*

Tree last-booted

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

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last-booted-reason *identityref*

Description The reason this component last booted or rebooted

For components without the ability to 'boot' this field is never populated

Context platform control slot *string* last-booted-reason *identityref*

Tree last-booted-reason

Options

- user-initiated-reboot

  A user initiated the reboot directly via a management interface
- power-failure

  The system rebooted the component due to insufficient power
- critical-error

  The system rebooted the component due to an internal critical error

Configurable False

Platforms Supported on all platforms

last-change *string*

Description The date and time this component last changed state

Context platform control slot *string* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-switchover-reason

Description Enter the last-switchover-reason context

State information relating to the last control module switchover

Context platform control slot *string* last-switchover-reason

Tree last-switchover-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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details *string*

Description Any additional details relating to the last switchover

This field is not populated if the system has not performed a switchover since initial startup.

Context platform control slot *string* last-switchover-reason details *string*

Tree details

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

trigger *identityref*

Description Indicates the trigger of the last switchover

This field is not populated if the system has not performed a switchover since initial startup.

Context platform control slot *string* last-switchover-reason trigger *identityref*

Tree trigger

Options

- user-initiated

  A user initiated the switchover directly via the tools schema

- control-reboot

  A user initiated the switchover indirectly via rebooting the active control module

- control-failure

  The system has forced a switchover due to a failure on the active control module

- linecard-connectivity

  The system has forced a switchover due to a loss of connectivity between the active control module and one or more linecards

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

locator-state *keyword*

Description Details if the locator LED is active on this component

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Context	platform control slot *string* locator-state *keyword*
Tree	locator-state
Default	inactive
Options	• active Locator LED is currently active • inactive Locator LED is currently inactive
Configurable	False
Platforms	Supported on all platforms

manufactured-date *string*

Description	The date this component was manufactured
Context	platform control slot *string* manufactured-date *string*
Tree	manufactured-date
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

memory

Description	Enter the memory context Top-level container for system memory state
Context	platform control slot *string* memory
Tree	memory
Configurable	False
Platforms	Supported on all platforms

free *number*

Description	Memory available for system use
Context	platform control slot *string* memory free *number*
Tree	free
Units	bytes
Configurable	False

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Platforms	Supported on all platforms

physical *number*

Description	Total physical memory available on this component
Context	platform control slot *string* memory physical *number*
Tree	physical
Units	bytes
Configurable	False
Platforms	Supported on all platforms

reserved *number*

Description	Memory reserved for system use
Context	platform control slot *string* memory reserved *number*
Tree	reserved
Units	bytes
Configurable	False
Platforms	Supported on all platforms

utilization *number*

Description	Total memory utilized
Context	platform control slot *string* memory utilization *number*
Tree	utilization
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	The operational state of this component
Context	platform control slot *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

part-number *string*

Description Part number for this component

Context platform control slot *string* part-number *string*

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Tree	part-number
Configurable	False
Platforms	Supported on all platforms

power

Description	Enter the power context State related to power consumption and allocation for this component
Context	platform control slot *string* power
Tree	power
Configurable	False
Platforms	Supported on all platforms

required *number*

Description	The power budget required to enable this component
Context	platform control slot *string* power required *number*
Tree	required
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	The power in use by this component
Context	platform control slot *string* power used *number*
Tree	used
Units	watts
Configurable	False
Platforms	Supported on all platforms

process pid *number*

Description	List of system processes

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Context	platform control slot *string* process pid *number*
Tree	process
Configurable	False
Platforms	Supported on all platforms

pid *number*

Description	The process ID
Context	platform control slot *string* process pid *number*
Configurable	False
Platforms	Supported on all platforms

args *string*

Description	Current process command line arguments Arguments with a parameter (e.g., --option 10 or -option=10) should be represented as a single element of the list with the argument name and parameter together. Flag arguments, i.e., those without a parameter should also be in their own list element.
Context	platform control slot *string* process pid *number* args *string*
Tree	args
Configurable	False
Platforms	Supported on all platforms

cpu-utilization *number*

Description	The percentage of CPU that is being used by the process
Context	platform control slot *string* process pid *number* cpu-utilization *number*
Tree	cpu-utilization
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

memory-usage *number*

Description	Bytes allocated and in use by the process
Context	platform control slot *string* process pid *number* memory-usage *number*
Tree	memory-usage

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Units	bytes
Configurable	False
Platforms	Supported on all platforms

memory-utilization *number*

Description	The percentage of RAM that is being used by the process
Context	platform control slot *string* process pid *number* memory-utilization *number*
Tree	memory-utilization
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	The process name
Context	platform control slot *string* process pid *number* name *string*
Tree	name
Configurable	False
Platforms	Supported on all platforms

start-time *string*

Description	The time at which this process started
Context	platform control slot *string* process pid *number* start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

rebooting-at *string*

Description	Indicates the date and time this component will reboot If empty, no delayed reboots are queued for this component.

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A non empty value implies that a delayed reboot operation has been triggered for this component, which can be aborted using 'tools platform <component> reboot cancel'.

Context platform control slot *string* rebooting-at *string*

Tree rebooting-at

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

removable *boolean*

Description Details if this component can be removed from the system

Context platform control slot *string* removable *boolean*

Tree removable

Configurable False

Platforms Supported on all platforms

role *keyword*

Description Control module role, detailing active or standby state

This field is not present on systems without removable control modules.

Context platform control slot *string* role *keyword*

Tree role

Options

- active
- standby

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

serial-number *string*

Description The serial number for this component

Context platform control slot *string* serial-number *string*

Tree serial-number

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Configurable	False
Platforms	Supported on all platforms

software-version *string*

Description	Image version version running on this component This version is the squashfs version, and may not represent the current per-application versions if versions have been modified after the system has been installed.
Context	platform control slot *string* software-version *string*
Tree	software-version
Configurable	False
Platforms	Supported on all platforms

temperature

Description	Enter the temperature context State related to temperature for this component
Context	platform control slot *string* temperature
Tree	temperature
Configurable	False
Platforms	Supported on all platforms

alarm-status *boolean*

Description	Indicates if a temperature sensor of this component is currently in an alarm state An alarm state is triggered if the margin is <=2 degrees, indicating that a thermal protection shut down is imminent unless adequate system cooling is provided to bring the temperature sensor back into safe operating ranges.
Context	platform control slot *string* temperature alarm-status *boolean*
Tree	alarm-status
Configurable	False
Platforms	Supported on all platforms

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instant *number*

Description	Represents the highest current temperature of any sensor on this component Note that as multiple sensors may feed in, that this field and the margin field may be referencing different sensors.
Context	platform control slot *string* temperature instant *number*
Tree	instant
Configurable	False
Platforms	Supported on all platforms

margin *number*

Description	Indicates the lowest alarm margin of any sensor on this component The margin is the delta between the current sensor temperature and the thermal protection threshold for that sensor. Note that as multiple sensors may feed in, that this field and the instant field may be referencing different sensors.
Context	platform control slot *string* temperature margin *number*
Tree	margin
Configurable	False
Platforms	Supported on all platforms

maximum *number*

Description	Represents the highest temperature any sensor on this component has reached since it booted
Context	platform control slot *string* temperature maximum *number*
Tree	maximum
Configurable	False
Platforms	Supported on all platforms

maximum-time *string*

Description	Indicates the time this component reached the temperature referenced in the maximum field
Context	platform control slot *string* temperature maximum-time *string*
Tree	maximum-time

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String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

type *string*

Description	Control module type, as translated from the components EEPROM
Context	platform control slot *string* type *string*
Tree	type
Configurable	False
Platforms	Supported on all platforms

fabric slot *number*

Description	Top-level container for fabric configuration and state
Context	platform fabric slot *number*
Tree	fabric
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

slot *number*

Description	Numeric identifier for the fabric module
Context	platform fabric slot *number*
Range	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

admin-state *keyword*

Description	The administrative state of this component
Context	platform fabric slot *number* admin-state *keyword*
Tree	admin-state

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Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform fabric slot *number* clei-code *string*
Tree	clei-code
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform fabric slot *number* failure-reason *string*
Tree	failure-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

healthz

Description	Enter the healthz context The health of the component The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component.

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The contents of this directory relate only to the specific component that it is associated with.

Context platform fabric slot *number* healthz

Tree healthz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform fabric slot *number* healthz last-unhealthy *string*

Tree last-unhealthy

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform fabric slot *number* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

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The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context platform fabric slot *number* healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-booted *string*

Description The date and time this component last booted

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For components that do not boot, this is the time the component was last discovered by the active control module

Context platform fabric slot *number* last-booted *string*

Tree last-booted

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

last-booted-reason *identityref*

Description The reason this component last booted or rebooted

For components without the ability to 'boot' this field is never populated

Context platform fabric slot *number* last-booted-reason *identityref*

Tree last-booted-reason

Options

- user-initiated-reboot

  A user initiated the reboot directly via a management interface
- power-failure

  The system rebooted the component due to insufficient power
- critical-error

  The system rebooted the component due to an internal critical error

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

last-change *string*

Description The date and time this component last changed state

Context platform fabric slot *number* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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locator-state *keyword*

Description Details if the locator LED is active on this component

Context platform fabric slot *number* locator-state *keyword*

Tree locator-state

Default inactive

Options

- active

  Locator LED is currently active
- inactive

  Locator LED is currently inactive

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

manufactured-date *string*

Description The date this component was manufactured

Context platform fabric slot *number* manufactured-date *string*

Tree manufactured-date

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

oper-state *keyword*

Description The operational state of this component

Context platform fabric slot *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty

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- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

part-number *string*

Description Part number for this component

Context platform fabric slot *number* part-number *string*

Tree part-number

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

power

Description	Enter the power context State related to power consumption and allocation for this component
Context	platform fabric slot *number* power
Tree	power
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	The power budget required to enable this component
Context	platform fabric slot *number* power required *number*
Tree	required
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	The power in use by this component
Context	platform fabric slot *number* power used *number*
Tree	used
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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rebooting-at *string*

Description	Indicates the date and time this component will reboot If empty, no delayed reboots are queued for this component. A non empty value implies that a delayed reboot operation has been triggered for this component, which can be aborted using 'tools platform <component> reboot cancel'.
Context	platform fabric slot *number* rebooting-at *string*
Tree	rebooting-at
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

removable *boolean*

Description	Details if this component can be removed from the system
Context	platform fabric slot *number* removable *boolean*
Tree	removable
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

serial-number *string*

Description	The serial number for this component
Context	platform fabric slot *number* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

temperature

Description	Enter the temperature context

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State related to temperature for this component

Context platform fabric slot *number* temperature

Tree temperature

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

alarm-status *boolean*

Description Indicates if a temperature sensor of this component is currently in an alarm state

An alarm state is triggered if the margin is <=2 degrees, indicating that a thermal protection shut down is imminent unless adequate system cooling is provided to bring the temperature sensor back into safe operating ranges.

Context platform fabric slot *number* temperature alarm-status *boolean*

Tree alarm-status

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description Represents the highest current temperature of any sensor on this component

Note that as multiple sensors may feed in, that this field and the margin field may be referencing different sensors.

Context platform fabric slot *number* temperature instant *number*

Tree instant

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

margin *number*

Description Indicates the lowest alarm margin of any sensor on this component

The margin is the delta between the current sensor temperature and the thermal protection threshold for that sensor. Note that as multiple sensors

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may feed in, that this field and the instant field may be referencing different sensors.

Context platform fabric slot *number* temperature margin *number*

Tree margin

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

maximum *number*

Description Represents the highest temperature any sensor on this component has reached since it booted

Context platform fabric slot *number* temperature maximum *number*

Tree maximum

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

maximum-time *string*

Description Indicates the time this component reached the temperature referenced in the maximum field

Context platform fabric slot *number* temperature maximum-time *string*

Tree maximum-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

type *string*

Description Fabric module type, as translated from the components EEPROM

Context platform fabric slot *number* type *string*

Tree type

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

fan-tray id *number*

Description	Top-level container for fan tray configuration and state
Context	platform fan-tray id *number*
Tree	fan-tray
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	Numeric identifier for the fan tray
Context	platform fan-tray id *number*
Range	1 to 255
Configurable	False
Platforms	Supported on all platforms

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform fan-tray id *number* clei-code *string*
Tree	clei-code
Configurable	False
Platforms	Supported on all platforms

failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform fan-tray id *number* failure-reason *string*
Tree	failure-reason
Configurable	False

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Platforms	Supported on all platforms

fan

Description	Enter the fan context
Context	platform fan-tray id *number* fan
Tree	fan
Configurable	False
Platforms	Supported on all platforms

fan id *number*

Description	Grouping for fan configuration and state
Context	platform fan-tray id *number* fan fan id *number*
Tree	fan
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

id *number*

Description	Numeric identifier for the fan
Context	platform fan-tray id *number* fan fan id *number*
Range	1 to 255
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

operational-speed *number*

Description	Average operational fan speed percentage of the fan
Context	platform fan-tray id *number* fan fan id *number* operational-speed *number*
Tree	operational-speed
Range	0 to 100
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

speed *number*

Description	Configured speed percentage of the fan, based on temperature sensor readings
Context	platform fan-tray id *number* fan fan id *number* speed *number*
Tree	speed
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

speed-rpm *number*

Description	Operational RPM of the fan
Context	platform fan-tray id *number* fan fan id *number* speed-rpm *number*
Tree	speed-rpm
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

operational-speed *number*

Description	Average operational fan speed percentage of all fans in the fan tray
Context	platform fan-tray id *number* fan operational-speed *number*
Tree	operational-speed
Range	0 to 100
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

speed *number*

Description Average configured fan speed percentage of all fans in the fan tray, based on temperature sensor readings

Context platform fan-tray id *number* fan speed *number*

Tree speed

Range 0 to 100

Configurable False

Platforms Supported on all platforms

speed-rpm *number*

Description Average operational RPM of all fans in the fan tray

Context platform fan-tray id *number* fan speed-rpm *number*

Tree speed-rpm

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

healthz

Description Enter the healthz context

The health of the component

The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.

Context platform fan-tray id *number* healthz

Tree healthz

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform fan-tray id *number* healthz last-unhealthy *string*

Tree last-unhealthy

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform fan-tray id *number* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

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- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context platform fan-tray id *number* healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-booted *string*

Description The date and time this component last booted

For components that do not boot, this is the time the component was last discovered by the active control module

Context platform fan-tray id *number* last-booted *string*

Tree last-booted

String Length 20 to 32

Configurable False

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Platforms Supported on all platforms

last-booted-reason *identityref*

Description The reason this component last booted or rebooted

For components without the ability to 'boot' this field is never populated

Context platform fan-tray id *number* last-booted-reason *identityref*

Tree last-booted-reason

Options

- user-initiated-reboot

  A user initiated the reboot directly via a management interface
- power-failure

  The system rebooted the component due to insufficient power
- critical-error

  The system rebooted the component due to an internal critical error

Configurable False

Platforms Supported on all platforms

last-change *string*

Description The date and time this component last changed state

Context platform fan-tray id *number* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

locator-state *keyword*

Description Details if the locator LED is active on this component

Context platform fan-tray id *number* locator-state *keyword*

Tree locator-state

Default inactive

Options

- active

  Locator LED is currently active
- inactive

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Locator LED is currently inactive

Configurable False

Platforms Supported on all platforms

manufactured-date *string*

Description The date this component was manufactured

Context platform fan-tray id *number* manufactured-date *string*

Tree manufactured-date

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

oper-reason *keyword*

Description Indicates the reason for the current state of this fan tray

Context platform fan-tray id *number* oper-reason *keyword*

Tree oper-reason

Options

- fault

  Hardware fault detected
- eeprom-invalid

  EEPROM of this fan tray is either invalid or corrupt
- airflow-mismatch

  The detected airflow of this fan tray does not match the system-calculated airflow direction

  The logic for determining the system-calculated direction is: - Majority wins between present fan trays - In the case where there are equal F2B or B2F fan trays, PSUs are used as a tie break (PSUs only are counted in the event a tie breaker is needed) - F2B wins if no tie break can be used

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description The operational state of this component

Context platform fan-tray id *number* oper-state *keyword*

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Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded Component or process is in a degraded state • warm-reboot Component or process is currently warm rebooting This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes. • waiting Component or process is currently waiting This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.
Configurable	False
Platforms	Supported on all platforms

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part-number *string*

Description	Part number for this component
Context	platform fan-tray id *number* part-number *string*
Tree	part-number
Configurable	False
Platforms	Supported on all platforms

power

Description	Enter the power context State related to power consumption and allocation for this component
Context	platform fan-tray id *number* power
Tree	power
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	The power budget required to enable this component
Context	platform fan-tray id *number* power required *number*
Tree	required
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	The power in use by this component
Context	platform fan-tray id *number* power used *number*
Tree	used
Units	watts
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

removable *boolean*

Description	Details if this component can be removed from the system
Context	platform fan-tray id *number* removable *boolean*
Tree	removable
Configurable	False
Platforms	Supported on all platforms

serial-number *string*

Description	The serial number for this component
Context	platform fan-tray id *number* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	Supported on all platforms

type *string*

Description	Fan tray type, as translated from the components EEPROM
Context	platform fan-tray id *number* type *string*
Tree	type
Configurable	False
Platforms	Supported on all platforms

icm id *number*

Description	Top-level container for icm module state
Context	platform icm id *number*
Tree	icm
Configurable	False
Platforms	7250 IXR-18e-gen3

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id *number*

Description	Numeric identifier for the icm tray
Context	platform icm id *number*
Range	1 to 255
Configurable	False
Platforms	7250 IXR-18e-gen3

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform icm id *number* clei-code *string*
Tree	clei-code
Configurable	False
Platforms	7250 IXR-18e-gen3

failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform icm id *number* failure-reason *string*
Tree	failure-reason
Configurable	False
Platforms	7250 IXR-18e-gen3

last-booted *string*

Description	The date and time this component last booted For components that do not boot, this is the time the component was last discovered by the active control module
Context	platform icm id *number* last-booted *string*
Tree	last-booted
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-18e-gen3

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last-booted-reason *identityref*

Description	The reason this component last booted or rebooted For components without the ability to 'boot' this field is never populated
Context	platform icm id *number* last-booted-reason *identityref*
Tree	last-booted-reason
Options	• user-initiated-reboot A user initiated the reboot directly via a management interface • power-failure The system rebooted the component due to insufficient power • critical-error The system rebooted the component due to an internal critical error
Configurable	False
Platforms	7250 IXR-18e-gen3

last-change *string*

Description	The date and time this component last changed state
Context	platform icm id *number* last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-18e-gen3

manufactured-date *string*

Description	The date this component was manufactured
Context	platform icm id *number* manufactured-date *string*
Tree	manufactured-date
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-18e-gen3

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oper-state *keyword*

Description The operational state of this component

Context platform icm id *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	7250 IXR-18e-gen3

part-number *string*

Description	Part number for this component
Context	platform icm id *number* part-number *string*
Tree	part-number
Configurable	False
Platforms	7250 IXR-18e-gen3

removable *boolean*

Description	Details if this component can be removed from the system
Context	platform icm id *number* removable *boolean*
Tree	removable
Configurable	False
Platforms	7250 IXR-18e-gen3

serial-number *string*

Description	The serial number for this component
Context	platform icm id *number* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	7250 IXR-18e-gen3

type *string*

Description	ICM tray type
Context	platform icm id *number* type *string*
Tree	type
Configurable	False
Platforms	7250 IXR-18e-gen3

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linecard slot *number*

Description	Top-level container for linecard configuration and state
Context	platform linecard slot *number*
Tree	linecard
Configurable	True
Platforms	Supported on all platforms

slot *number*

Description	Numeric identifier for the linecard
Context	platform linecard slot *number*
Range	1 to 18
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	The administrative state of this component
Context	platform linecard slot *number* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform linecard slot *number* clei-code *string*
Tree	clei-code
Configurable	False
Platforms	Supported on all platforms

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cpu index *(keyword | number)*

Description	List of all CPUs in the system
Context	platform linecard slot *number* cpu index *(keyword | number)*
Tree	cpu
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

index *(keyword | number)*

Description	CPU index for each processor core on the system On a single-core system, the index should be zero. The 'all' index signifies an aggregation of the CPU utilization statistics over all cores in the system.
Context	platform linecard slot *number* cpu index *(keyword | number)*
Options	• all Index value indicating all CPUs in the system
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

architecture *keyword*

Description	Architecture supported by the CPU
Context	platform linecard slot *number* cpu index *(keyword | number)* architecture *keyword*
Tree	architecture
Options	• x86_64 • aarch64
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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hardware-interrupt

Description Enter the hardware-interrupt context

Time spent servicing hardware interrupts

Context platform linecard slot *number* cpu index *(keyword | number)* hardware-interrupt

Tree hardware-interrupt

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description The arithmetic mean value of this statistic over the last minute

Context platform linecard slot *number* cpu index *(keyword | number)* hardware-interrupt average-1 *number*

Tree average-1

Range 0 to 100

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description The arithmetic mean value of this statistic over the last fifteen minutes

Context platform linecard slot *number* cpu index *(keyword | number)* hardware-interrupt average-15 *number*

Tree average-15

Range 0 to 100

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* hardware-interrupt average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* hardware-interrupt instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

idle

Description	Enter the idle context Time spent idle
Context	platform linecard slot *number* cpu index *(keyword | number)* idle
Tree	idle
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute

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Context	platform linecard slot *number* cpu index *(keyword | number)* idle average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* idle average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* idle average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* idle instant *number*
Tree	instant

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Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

iowait

Description	Enter the iowait context Time spent idle, waiting for an outstanding disk I/O request
Context	platform linecard slot *number* cpu index *(keyword | number)* iowait
Tree	iowait
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform linecard slot *number* cpu index *(keyword | number)* iowait average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* iowait average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword* | *number)* iowait average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword* | *number)* iowait instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

nice

Description	Enter the nice context Time spent running low-priority (niced) user processes
Context	platform linecard slot *number* cpu index *(keyword* | *number)* nice
Tree	nice
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform linecard slot *number* cpu index *(keyword | number)* nice average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* nice average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* nice average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* nice instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

software-interrupt

Description	Enter the software-interrupt context Time spent servicing software interrupts
Context	platform linecard slot *number* cpu index *(keyword | number)* software-interrupt
Tree	software-interrupt
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform linecard slot *number* cpu index *(keyword | number)* software-interrupt average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* software-interrupt average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* software-interrupt average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* software-interrupt instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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speed *decimal-number*

Description	Capable speed of the CPU
Context	platform linecard slot *number* cpu index *(keyword | number)* speed *decimal-number*
Tree	speed
Units	gigahertz
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

system

Description	Enter the system context Time spent executing at the system level This can otherwise be known as kernel time, and does not include time spent servicing hardware and software interrupts.
Context	platform linecard slot *number* cpu index *(keyword | number)* system
Tree	system
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform linecard slot *number* cpu index *(keyword | number)* system average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* system average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* system average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* system instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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total

Description Enter the total context

Total CPU utilization

Context platform linecard slot *number* cpu index *(keyword | number)* total

Tree total

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description The arithmetic mean value of this statistic over the last minute

Context platform linecard slot *number* cpu index *(keyword | number)* total average-1 *number*

Tree average-1

Range 0 to 100

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description The arithmetic mean value of this statistic over the last fifteen minutes

Context platform linecard slot *number* cpu index *(keyword | number)* total average-15 *number*

Tree average-15

Range 0 to 100

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description The arithmetic mean value of this statistic over the last five minutes

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Context	platform linecard slot *number* cpu index *(keyword | number)* total average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword | number)* total instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

type *string*

Description	Model name of the CPU
Context	platform linecard slot *number* cpu index *(keyword | number)* type *string*
Tree	type
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

user

Description	Enter the user context Time spent executing at the user level This can otherwise be known as application or user space time.
Context	platform linecard slot *number* cpu index *(keyword | number)* user
Tree	user

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-1 *number*

Description	The arithmetic mean value of this statistic over the last minute
Context	platform linecard slot *number* cpu index *(keyword | number)* user average-1 *number*
Tree	average-1
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-15 *number*

Description	The arithmetic mean value of this statistic over the last fifteen minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* user average-15 *number*
Tree	average-15
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

average-5 *number*

Description	The arithmetic mean value of this statistic over the last five minutes
Context	platform linecard slot *number* cpu index *(keyword | number)* user average-5 *number*
Tree	average-5
Range	0 to 100
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	The instantaneous percentage value
Context	platform linecard slot *number* cpu index *(keyword* | *number)* user instant *number*
Tree	instant
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform linecard slot *number* failure-reason *string*
Tree	failure-reason
Configurable	False
Platforms	Supported on all platforms

forwarding-complex name *keyword*

Description	List of forwarding complexes on the linecard
Context	platform linecard slot *number* forwarding-complex name *keyword*
Tree	forwarding-complex
Configurable	True
Platforms	Supported on all platforms

name *keyword*

Description	The identifier of the forwarding complex
Context	platform linecard slot *number* forwarding-complex name *keyword*

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Options
- 0
- 1

Configurable True

Platforms Supported on all platforms

buffer-memory

Description Enter the buffer-memory context

Container for utilization statistics of the packet buffer memory

Context platform linecard slot *number* forwarding-complex name *keyword* buffer-memory

Tree buffer-memory

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dram

Description Enter the dram context

Container for utilization statistics of the DRAM memory.

Context platform linecard slot *number* forwarding-complex name *keyword* buffer-memory dram

Tree dram

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description Used DRAM memory

Context platform linecard slot *number* forwarding-complex name *keyword* buffer-memory dram used *number*

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Tree	used
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description	Available buffer memory, which equals the total memory less the used memory and the reserved memory.
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory free *number*
Tree	free
Units	bytes
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-headroom-buffer

Description	Enter the pfc-headroom-buffer context Container for utilization statistics of the pfc-headroom-buffer
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory pfc-headroom-buffer
Tree	pfc-headroom-buffer
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

free *number*

Description	Remaining pfc-headroom-buffer
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory pfc-headroom-buffer free *number*

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Tree	free
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

used *number*

Description	Used pfc-headroom-buffer
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory pfc-headroom-buffer used *number*
Tree	used
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

reserved *number*

Description	Buffer memory reserved for proper system operation and by the user (due to assignment of non-zero CBS for certain queues, on platforms that support CBS).
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory reserved *number*
Tree	reserved
Units	bytes
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

sram

Description	Enter the sram context Container for utilization statistics of the on-chip SRAM memory.
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory sram
Tree	sram

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description	Available SRAM memory
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory sram free *number*
Tree	free
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description	Used SRAM memory
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory sram used *number*
Tree	used
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description	Used buffer memory, excluding reserved memory.
Context	platform linecard slot *number* forwarding-complex name *keyword* buffer-memory used *number*
Tree	used
Units	bytes

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Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

control-plane-traffic

Description	Enter the control-plane-traffic context Counters related to traffic destined to the control-plane
Context	platform linecard slot *number* forwarding-complex name *keyword* control-plane-traffic
Tree	control-plane-traffic
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-aggregate *number*

Description	The aggregation of all counters where the switch has dropped traffic related to the control plane This is derived by summing the drop counters of every VOQ towards the CPM, and so counts extracted packets that were dropped before reaching the CPM because a CPM-bound queue was congested or rate limited.
Context	platform linecard slot *number* forwarding-complex name *keyword* control-plane-traffic dropped-aggregate *number*
Tree	dropped-aggregate
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-bytes-aggregate *number*

Description	The aggregation of all counters in bytes where the switch has dropped traffic related to the control plane

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Context	platform linecard slot *number* forwarding-complex name *keyword* control-plane-traffic dropped-bytes-aggregate *number*
Tree	dropped-bytes-aggregate
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queued-aggregate *number*

Description	The aggregation of all counters where the switch has enqueued traffic related to the control plane This is derived by summing the forward and drop counters of every VOQ towards the CPM, and so counts every packet extracted from the ingress or egress pipeline, including packets extracted because the next hop or the locally connected destination host requires ARP/ND address resolution.
Context	platform linecard slot *number* forwarding-complex name *keyword* control-plane-traffic queued-aggregate *number*
Tree	queued-aggregate
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queued-bytes-aggregate *number*

Description	The aggregation of all counters in bytes where the switch has enqueued traffic related to the control plane
Context	platform linecard slot *number* forwarding-complex name *keyword* control-plane-traffic queued-bytes-aggregate *number*
Tree	queued-bytes-aggregate
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

core index *number*

Description	List of cores within the forwarding-complex that expose per-core QoS resource usage
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number*
Tree	core
Configurable	False
Platforms	Supported on 7250 IXR-X4

index *number*

Description	Numeric index of the core within the parent forwarding-complex
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number*
Range	0 to 7
Configurable	False
Platforms	Supported on 7250 IXR-X4

qos

Description	Enter the qos context QoS resource utilization for this core
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number* qos
Tree	qos
Configurable	False
Platforms	Supported on 7250 IXR-X4

resource name *identityref*

Description	List of per-core QoS resources
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number* qos resource name *identityref*
Tree	resource

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Configurable	False
Platforms	Supported on 7250 IXR-X4

name *identityref*

Description	The name of the QoS resource
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number* qos resource name *identityref*
Options	• voq-connector-set VoQ connector set resources allocated per core Each subinterface that has per-subinterface queuing enabled consumes one voq-connector-set on every core that hosts an interface in the subinterface's parent interface or LAG. A voq-connector-set represents the per-core hardware resource that connects a global VoQ-id to the local set of 8 queues on that core.
Configurable	False
Platforms	Supported on 7250 IXR-X4

free *number*

Description	The number of resources that are unused and available
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number* qos resource name *identityref* free *number*
Tree	free
Configurable	False
Platforms	Supported on 7250 IXR-X4

used *number*

Description	The number of resources that are in use
Context	platform linecard slot *number* forwarding-complex name *keyword* core index *number* qos resource name *identityref* used *number*
Tree	used
Configurable	False
Platforms	Supported on 7250 IXR-X4

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counter-banks

Description Enter the counter-banks context

Bank allocation across different stake-holders. Banks are required by policers to function as well for various stats collection such as Per-Prefix Stats, LSP Stats and alike

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks

Tree counter-banks

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank bank-id *number*

Description Enter the bank list instance

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number*

Tree bank

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank-id *number*

Description Unique bank location identifier

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number*

Range 1 to 34

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application name *identityref*

Description Enter the application list instance

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Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number* application name *identityref*

Tree application

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description Bank binding. Displays the name of the application bank is assigned to

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number* application name *identityref*

Options

- unallocated

  A bank that is not allocated to a given application. This bank can be assigned to an application that supports dynamic bank allocation

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries *number*

Description Bank entries reserved for a given application

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number* application name *identityref* entries *number*

Tree entries

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank-size *keyword*

Description Bank size. Counter banks are in different sizes and applications can make use of different bank sizes for scale

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number* bank-size *keyword*

Tree bank-size

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Options
- 4K
- 6K
- 8K
- 12K
- 16K
- 24K

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

banks-in-group *number*

Description Certain applications mandate allocation of another corresponding bank to function properly as mandated by datapath When given application requires to be grouped with another bank, assuming bank is available at the time of allocation, is displayed in this field

Context platform linecard slot *number* forwarding-complex name *keyword* counter-banks bank bank-id *number* banks-in-group *number*

Tree banks-in-group

Range 1 to 34

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

datapath

Description Enter the datapath context

Container for monitoring datapath resources of a particular forwarding complex

Context platform linecard slot *number* forwarding-complex name *keyword* datapath

Tree datapath

Configurable False

Platforms Supported on all platforms

asic

Description Enter the asic context

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Container for monitoring ASIC-specific datapath resources

Context platform linecard slot *number* forwarding-complex name *keyword* datapath asic

Tree asic

Configurable False

Platforms Supported on all platforms

resource name *identityref*

Description List of ASIC-specific datapath resources.

Context platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref*

Tree resource

Configurable False

Platforms Supported on all platforms

name *identityref*

Description The name of the ASIC-specific datapath resource

Context platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref*

Options

- ip-lpm-ipv4-routes

  IPv4 longest prefix match route resources

  7220 D1/D2/D3: Reports the number of IPv4 entries in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of half-wide entries in all partitions (i.e. it assumes no IPv6 routes consume those entries). In ALPM mode, free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

  7220 D4/D5 and 7220 H2/H3/H4: Reports the number of IPv4 routes installed in the FIB. Free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-routes

  IPv6 longest prefix match route resources

  Reports the number of IPv6 routes installed in the FIB. Free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-shorter-routes

  IPv6 longest prefix match route resources when the prefix length is less than or equal to 64

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7220 D1/D2/D3: Reports the number of IPv6 entries with prefix length less than 65 bits in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of single-wide + double-wide entries (i.e. it assumes no other types of routes consume those entries). In ALPM mode, free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

7220 H2/H3: Reports the number of IPv6 entries with prefix length less than 65 bits installed in the FIB. Free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-longer-routes

  IPv6 longest prefix match route resources when the prefix length is greater than 64

  7220 D1/D2/D3: Reports the number of IPv6 entries with prefix length greater than 64 bits in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of double-wide entries (i.e. it assumes no other types of routes consume those entries). In ALPM mode, free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

  7220 H2/H3: Reports the number of IPv6 entries with prefix length greater than 64 bits installed in the FIB. Free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

- exact-match-entries

  Exact match lookup table resources

  Counts 30-bit entries. On 7250 IXR Gen3 systems, this captures total usage across both the main and secondary table.

- exact-match-entries-1

  Exact match lookup table resources, main table

  Counts 30-bit entries

- exact-match-entries-2

  Exact match lookup table resources, secondary table

  Counts 30-bit entries

- exact-match-entries-mac-da

  Exact match lookup table resources used for MAC destination address FDB lookup

  Counts 30-bit entries

- exact-match-entries-mac-sa

  Exact match lookup table resources used for MAC source address FDB lookup

  Counts 30-bit entries

- exact-match-entries-mpls-label

  Exact match lookup table resources used for MPLS incoming label lookup

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Counts 30-bit entries

- exact-match-entries-ipv4-route

  Exact match lookup table resources used for IPv4 compressed route lookup

  Counts 30-bit entries

- exact-match-entries-ipv6-route

  Exact match lookup table resources used for IPv6 compressed route lookup

  Counts 30-bit entries

- exact-match-entries-next-hop

  Exact match lookup table resources used for compressed route next-hop lookup

  Counts 30-bit entries

- ip-tunnel-source-ipv4-addresses

  IP tunnel source IPv4 address resources

  Each IPinIP and GRE tunnel with a different source IPv4 address uses one of these resources.

- ip-tunnel-source-ipv6-addresses

  IP tunnel source IPv6 address resources

  Each IPinIP and GRE tunnel with a different source IPv6 address uses one of these resources.

- underlay-ecmp-groups

  Underlay ECMP group resources

  ECMP groups are partitioned into overlay and underlay groups. The underlay partition is further subdivided into groups used for underlay ECMP and groups used for VP LAGs (EVPN M-H - if supported). This counts the utilization of the sub-resource used for ECMP.

- dynamic-load-balancing-ecmp-groups

  Dynamic load-balancing ECMP groups

  A DLB ECMP group can support per-packet load-balancing or it can support assignment of flows to ECMP members based on interface load metrics

- vp-lag-groups

  VP LAG group resources

  ECMP groups are partitioned into overlay and underlay groups. The underlay partition is further subdivided into groups used for underlay ECMP and groups used for VP LAGs (EVPN M-H). This counts the utilization of the sub-resource used for VP LAGs.

- overlay-ecmp-groups

  Overlay ECMP group resources

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ECMP groups are partitioned into overlay and underlay groups. This counts the utilization of the overlay ECMP partition.

- underlay-ecmp-members

  Underlay ECMP member resources

  ECMP members are partitioned into overlay and underlay. This counts the utilization of the partition used for underlay.

- overlay-ecmp-members

  Overlay ECMP member resources

  ECMP members are partitioned into overlay and underlay. This counts the utilization of the partition used for overlay.

- underlay-egress-next-hops

  Underlay egress next-hop resources

  Egress next-hops are partitioned into overlay and underlay. This counts the utilization of the partition used for underlay.

- overlay-egress-next-hops

  Overlay egress next-hop resources

  Egress next-hops are partitioned into overlay and underlay. This counts the utilization of the partition used for overlay.

- dgpp-module-ids

  DGPP module ID resources

  DGPPs are an aggregate id consisting of a module_id and a port_id. There are 64 modules and 120 ports per module. Each 'network' ARP entry (IP next-hop) needs a DGPP - the module_id is allocated against the network interface (port) and a port_id is allocated from within the module. A module_id will only be allocated when the first ArpEntry is added (freed when last is removed) but is owned exclusively by that network interface. A network interface may require more than one module_id - i.e. if there are 245 ArpEntries on ethernet-1/1 (possibly spread across multiple network-instance interfaces) then 3 module_ids are required.

- egress-vlan-translate-egress-vnis

  EGR_VLAN_XLATE_1 resources

  Corresponds to the 'EGR_VLAN_XLATE_1' HW table (8K entries on Dx). These entries are used for finding the egress VNI to be used for VXLAN packets.

- egress-vlan-translate-local-bias-pairs

  EGR_VLAN_XLATE_2 resources

  Corresponds to the 'EGR_VLAN_XLATE_2' HW table (24K entries). These entries are used for local bias (ES pruning).

- level-1-ecmp-groups

  Level 1 (top level) ECMP group resources.

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- level-2-ecmp-groups

  Level 2 (middle level) ECMP group resources.
- level-3-ecmp-groups

  Level 3 (bottom level) ECMP group resources.
- level-1-ecmp-members

  Level 1 (top level) ECMP member resources.
- level-2-ecmp-members

  Level 2 (middle level) ECMP member resources.
- level-3-ecmp-members

  Level 3 (bottom level) ECMP member resources.
- level-1-non-ecmp-fecs

  Level 1 (top level) non-ECMP FEC resources.
- level-2-non-ecmp-fecs

  Level 2 (middle level) non-ECMP FEC resources.
- level-3-non-ecmp-fecs

  Level 3 (bottom level) non-ECMP FEC resources.
- ip-tunnel-statistics

  Statistics resources for counting packets matching an IP tunnel entry

  One resource is one packet/octet counter pair that is allocated to counting: (a) packets that match an IP tunnel termination entry for purposes of per-prefix transit traffic statistics (b) packets that match IP tunnel termination entries programmed to decapsulate and redirect traffic to another network-instance (c) packets that match IP tunnel termination entries programmed to decapsulate and re-tunnel traffic to a new endpoint address (1 counter pair per new endpoint address)
- subinterface-basic-stats-counters

  Stats resources used by bridged and routed (non-IRB) subinterfaces that do not provide a breakdown by protocol family
- subinterface-detailed-stats-counters

  Stats resources used by routed (non-IRB) subinterfaces that provide a breakdown by protocol family
- subinterface-irb-stats-counters

  Stats resources used by routed IRB subinterfaces
- kaps-public

  The public KAPS hardware table
- kaps-private

  The private KAPS hardware table
- phase-2-type-1-eedb-entries

  Phase-2 (EEDB) Egress Encapsulation resources

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Required by various applications such as EVPN BUM label and sflow

- phase-2-type-2-eedb-entries

  Phase-2 (EEDB) Egress Encapsulation resources

  Required by various applications such as EVPN Unicast label, IP-VPN/ IFL label, IRB ARP entries and vlan loopbacks

- phase-3-type-1-eedb-entries

  Phase-3 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS and sflow. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-3-type-2-eedb-entries

  Phase-3 (EEDB) Egress Encapsulation resources

  Required by various applications such as BGP Labeled Unicast and IP-in-IP tunnels

- phase-4-type-1-eedb-entries

  Phase-4 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS, GREv4 and GREv6 tunnels, sflow for UDP tunnels. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-4-type-2-eedb-entries

  Phase-4 (EEDB) Egress Encapsulation resources

  Required by various applications such as TE-Policy extended label stack, three or more labels. Requires phase-3 type-1 bank for first and second label. On IXR Gen 3, can push multiple labels starting with TE-Policy label position 3

- phase-5-type-1-eedb-entries

  Phase-5 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS and GREv6 tunnels. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-6-type-1-eedb-entries

  Phase-6 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS tunnels and ti-LFA. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-7-type-1-eedb-entries

  Phase-7 (EEDB) Egress Encapsulation resources

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Required by various applications such as MPLS tunnels including LDP and SR-ISIS. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- type-1-esem-entries

  Type-1 (ESEM) Egress Exact Match resources

  Required by various applications such as Egress VNIs for VXLAN tunnels

- type-2-esem-entries

  Type-2 (ESEM) Egress Exact Match resources

  Required by various applications such as EVPN-MPLS Multi-Homing ESI label forwarding to ES peers

- es-prune-entries

  Ethernet Segment Prune resources

  Required by various applications, including EVPN-MPLS and EVPN-VXLAN Multi-Homing, to enforce split-horizon filtering at the egress Ethernet Segment interface. For EVPN-MPLS Multi-Homing, one entry is maintained per Ethernet Segment interface. For EVPN-VXLAN Multi-Homing, one entry is maintained per Ethernet Segment interface and remote peer that shares the same Ethernet Segment with the system.

Configurable False

Platforms Supported on all platforms

free-entries *number*

Description The number of entries that are currently free

Context platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms Supported on all platforms

max-entries *number*

Description The total number of entries that are supported

Context platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* max-entries *number*

Tree max-entries

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description	The number of entries that are currently used
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	Supported on all platforms

used-high-watermark *number*

Description	A watermark of highest number of entries used for this resource
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* used-high-watermark *number*
Tree	used-high-watermark
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-last-high-watermark-time *string*

Description	The timestamp when the high-watermark was last updated
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* used-last-high-watermark-time *string*
Tree	used-last-high-watermark-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-percent *number*

Description	The percentage of the resource that is currently used
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* used-percent *number*
Tree	used-percent
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

used-upper-threshold-exceeded *boolean*

Description	This value is set to true when the used percentage value (used / (used + free) * 100) has reached (in a rising direction) the configured upper-threshold-set for this resource and false when the used percentage value has reached (in a falling direction) the configured upper-threshold-clear for this resource
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath asic resource name *identityref* used-upper-threshold-exceeded *boolean*
Tree	used-upper-threshold-exceeded
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

xdp

Description	Enter the xdp context Container for monitoring datapath resources that are generic in concept.
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp
Tree	xdp
Configurable	False
Platforms	Supported on all platforms

resource name *identityref*

Description	List of generic datapath resources.

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Context platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref*

Tree resource

Configurable False

Platforms Supported on all platforms

name *identityref*

Description The name of the XDP datapath resource

Context platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref*

Options

- arp-nd-entries

  IPv4 ARP and IPv6 neighbor discovery resources

  Each IPv4 ARP and each IPv6 neighbor entry counts as 1 used resource against a total that is platform dependent.

- ip-hosts

  IP host route resources

  7215 IXS-A1: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

  7220 D1/D2/D3: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every IPv4 multicast snoop entry requires 2 entries. In non-ALPM operation every remote /32 route also requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every IPv6 multicast snoop entry requires 4 entries. In non-ALPM operation every remote /128 route also requires 2 entries. Free entries reflects the total number of entries remaining in shared + dedicated UFT banks.

  7220 D4/D5: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every (*, G) IPv4 multicast snoop entry requires 1 entry. Every (S, G) IPv4 multicast snoop entry requires 2 entries. Every (*, G) IPv6 multicast snoop entry requires 2 entries. Every (S, G) IPv6 multicast snoop entry requires 4 entries.

  7220 H2/H3/H4/H5/H6: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

- ip-lpm-routes

  IP longest prefix match route resources

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7250 IXR/IXRe: Every installed IPv4 and IPv6 route counts as one used route.

7220 D1/D2/D3: In ALPM-disabled mode: Reports the number of half-wide entries. An IPv4 route requires a half-wide entry. An IPv6 route that is /64 or less requires a single-wide entry (2 half-wide entries). An IPv6 route that is more than /64 requires a double-wide entry (4 half-wide entries). In ALPM mode: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 2 used routes.

7220 D4/D5: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 4 used routes.

- mac-addresses

  MAC lookup table resources

  Reports the number of entries used in the MAC lookup table. On 7220 D1/D2/D3/D4/D5, free entries reflects the total number of entries remaining in shared + dedicated UFT banks

- mac-next-hops

  Direct MAC next-hop resources

  A resource that is consumed by each next-hop of a gRIBI route or an EVPN IFF unnumbered route, where the next-hop is specified as an interface name combined with a MAC address

- direct-ip-next-hops

  Direct IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route or MPLS route/tunnel that is resolved directly to a local interface.

- indirect-ip-next-hops

  Indirect IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route that requires resolution by a non-local route. This does not consider underlying ASIC resources.

- multicast-route

  multicast route resources

  7250 X3b/X1b/IXR/IXRe: Reports the number of entries used in the multicast route table.

- tunnel-next-hops

  Tunnel next-hop resources

  Reports the number of tunnel next-hop entries. 1 tunnel next-hop is required every time an indirect next-hop (e.g. a BGP next-hop) is resolved by a tunnel (BGP-LU, LDP, SR-ISIS or VXLAN)

- ecmp-groups

  ECMP group resources

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7250 IXR/IXRe: Reports the used number of ECMP FECs, adding L1 ECMP FECs, L2 ECMP FECs and L3 ECMP FECs.

7220 D1/D2/D3/D4/D5: Reports the used number of ECMP groups, adding overlay and underlay ECMP groups (if applicable).

7220 H2/H3/H4: Reports used number of ECMP groups.

- ecmp-members

  ECMP member resources

  7250 IXR/IXRe: Reports the used number of ECMP member FECs, adding L1 ECMP member FECs, L2 ECMP member FECs and L3 ECMP member FECs.

  7220 D1/D2/D3/D4/D5: Reports the used number of ECMP members, adding overlay and underlay ECMP members (if applicable).

  7220 H2/H3/H4: Reports used number of ECMP members.

- egress-next-hops

  Egress next-hop resources

  7215 IXS-A1: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 D2/D3/D4/D5: Reports the number of entries used in the egress next-hop table, counting entries in the overlay partition and entries in the underlay partition. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 H2/H3/H4/H5/H6: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

- lag-groups

  LAG group resources

  Reports the number of LAG resources used, including DGPP LAGs.

- lag-members

  LAG member resources

  Reports the number of LAG member resources used, including DGPP LAG members.

- subinterfaces

  Subinterface resources

  There are a maximum of 127 subinterfaces per TH3 pipeline (limited by VFP/EFP TCAM resources). This counts the utilization of those resources.

- mpls-next-hops

  MPLS next-hop (NHLFE) resources

  One resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an ILM entry that performs a 'swap'.

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One additional resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an MPLS tunnel.

- mpls-incoming-labels

  MPLS label lookup (ILM) resources

  One resource is used for every MPLS ILM entry that performs either a 'swap' or a 'pop' operation.

- originating-tunnels

  Originating tunnel resources

  One resource is used for every VXLAN, LDP, SR-ISIS or IPinIP tunnel originating on this node as head-end. On TD and TD4 systems this equates to a DVP resource.

- terminating-tunnels

  Terminating tunnel resources

  One resource is used for every IPinIP tunnel terminating entry on this node.

Configurable False

Platforms Supported on all platforms

free-entries *number*

Description The number of entries that are currently free

Context platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms Supported on all platforms

max-entries *number*

Description The total number of entries that are supported

Context platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* max-entries *number*

Tree max-entries

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-entries *number*

Description	The number of entries that are currently used
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	Supported on all platforms

used-high-watermark *number*

Description	A watermark of highest number of entries used for this resource
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* used-high-watermark *number*
Tree	used-high-watermark
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-last-high-watermark-time *string*

Description	The timestamp when the high-watermark was last updated
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* used-last-high-watermark-time *string*
Tree	used-last-high-watermark-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description	The percentage of the resource that is currently used
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* used-percent *number*

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Tree	used-percent
Range	0 to 100
Configurable	False
Platforms	Supported on all platforms

used-upper-threshold-exceeded *boolean*

Description	This value is set to true when the used percentage value (used / (used + free) * 100) has reached (in a rising direction) the configured upper-threshold-set for this resource and false when the used percentage value has reached (in a falling direction) the configured upper-threshold-clear for this resource
Context	platform linecard slot *number* forwarding-complex name *keyword* datapath xdp resource name *identityref* used-upper-threshold-exceeded *boolean*
Tree	used-upper-threshold-exceeded
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-counters

Description	Enter the drop-counters context State container for forwarding-complex drop counters
Context	platform linecard slot *number* forwarding-complex name *keyword* drop-counters
Tree	drop-counters
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

adverse-aggregate *number*

Description	Aggregation of all counters incremented when packets are dropped unexpectedly This leaf counts packet discarded as result of corrupted programming state or data structures in the forwarding-complex integrated circuit.

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Note: corrupted packets received on ingress interfaces are not counted in this leaf. This is because incoming corrupted packets are not a signal of adverse state within the integrated circuit, but rather of an adjacent entity, such as a cable or transceiver.

Context platform linecard slot *number* forwarding-complex name *keyword* drop-counters adverse-aggregate *number*

Tree adverse-aggregate

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

congestion-aggregate *number*

Description Aggregation of all counters incremented when packets are dropped due to an excess of traffic, i.e. some queue or FIFO is getting overloaded. Many of these drops are also counted in the qos/interface hierarchy

This is derived by summing all port-level in-discarded-packets counters, which count drops due to ASIC forwarding-rate over-subscription. Those counters also include some drops not due to oversubscription, such as Ethernet frames smaller than 64 bytes or frames with a bad CRC

Also included: * packets deleted from egress queues when port TX is disabled * packets tail-dropped by VOQs due to insufficient credits * packets aged out of VOQs after being queued for over 500ms

Context platform linecard slot *number* forwarding-complex name *keyword* drop-counters congestion-aggregate *number*

Tree congestion-aggregate

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

no-route *number*

Description Aggregation of all counters incremented when packets are dropped due to no FIB entry for an IPv4 or IPv6 packet

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This counter and the packet-processing-aggregate counter should be incremented for each no-route packet drop. MPLS packets, and Ethernet packets switched at Layer 2 through the MAC FDB, are not considered.

This is derived from the forward and drop counters of the VOQ associated with the no-route extraction reason.

Context platform linecard slot *number* forwarding-complex name *keyword* drop-counters no-route *number*

Tree no-route

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-processing-aggregate *number*

Description Aggregation of all counters incremented when packets are dropped due to a packet characteristic (e.g. size, header fields) or due to policy / specific programming

This is derived by summing: * subinterface-level in-discarded counters (operator preference / control / policy: FIB lookup failures / no-route, ACL drop or reject, CPM filter drops, blackhole next-hop, uRPF, and similar) * subinterface-level out-error counters (packets dropped due to IP MTU exceeded) * port-level out-error counters (packets dropped due to port MTU exceeded) * port-level in-error counters (packets dropped due to MRU exceeded or packet CRC error) * subinterface-level in-error counters (header field errors, including TTL/HopLimit expiry) * subinterface-level out-discarded counters

Context platform linecard slot *number* forwarding-complex name *keyword* drop-counters packet-processing-aggregate *number*

Tree packet-processing-aggregate

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fabric

Description Enter the fabric context

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Top-level container for fabric configuration and state

Context platform linecard slot *number* forwarding-complex name *keyword* fabric

Tree fabric

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

availability *number*

Description Details the percentage bandwidth available to the fabric for the line card

Context platform linecard slot *number* forwarding-complex name *keyword* fabric availability *number*

Tree availability

Range 0 to 100

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

consumed-capacity *number*

Description Backplane-facing capacity that is consumed by front-panel ports that are connected to the integrated circuit and are operationally up

Context platform linecard slot *number* forwarding-complex name *keyword* fabric consumed-capacity *number*

Tree consumed-capacity

Units bits per second

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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operational-capacity *number*

Description	Total backplane-facing capacity that is currently available based on the active links
Context	platform linecard slot *number* forwarding-complex name *keyword* fabric operational-capacity *number*
Tree	operational-capacity
Units	bits per second
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-capacity *number*

Description	Total backplane-facing capacity that is available in the presence of no link failures or degradation
Context	platform linecard slot *number* forwarding-complex name *keyword* fabric total-capacity *number*
Tree	total-capacity
Units	bits per second
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

utilization-egress *number*

Description	Provides the linecard bandwidth utilization from the switch fabric
Context	platform linecard slot *number* forwarding-complex name *keyword* fabric utilization-egress *number*

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Tree	utilization-egress
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

utilization-ingress *number*

Description	Provides the linecard bandwidth utilization into the switch fabric
Context	platform linecard slot *number* forwarding-complex name *keyword* fabric utilization-ingress *number*
Tree	utilization-ingress
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

fib-table

Description	Enter the fib-table context
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table
Tree	fib-table
Configurable	False
Platforms	Supported on all platforms

next-hop-group index *number*

Description	List of next hop groups (NHGs) in the FIB table
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number*
Tree	next-hop-group
Configurable	False
Platforms	Supported on all platforms

index *number*

Description	A system-wide unique identifier of a next-hop-group

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Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

backup-active *boolean*

Description	When true, this NHG is not being used to forward traffic and its backup NHG is being relied upon to provide reachability
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* backup-active *boolean*
Tree	backup-active
Configurable	False
Platforms	Supported on all platforms

backup-next-hop-group *reference*

Description	The backup next-hop-group for the current group. When all entries within the next-hop group become unusable, the backup next-hop group is used if specified.
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* backup-next-hop-group *reference*
Tree	backup-next-hop-group
Reference	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number*
Configurable	False
Platforms	Supported on all platforms

next-hop id *number*

Description	Enter the next-hop list instance
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* next-hop id *number*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms

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id *number*

Description Index of the next-hop within the NHG

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* next-hop id *number*

Range 0 to 1023

Configurable False

Platforms Supported on all platforms

next-hop *number*

Description The system-wide unique identifier of the next-hop object

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* next-hop id *number* next-hop *number*

Tree next-hop

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description Operational state of the next-hop member

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* next-hop id *number* oper-state *keyword*

Tree oper-state

Options

- up

  The NHG or NH is fully resolved and operational

- down

  The NHG or NH is unresolved and not viable for carrying traffic

- failed

  The NHG or NH is not operational because of an underlying hardware resource issue

- up-unused

  The NH is up and resolved but not used for carrying traffic, possibly because of resilient-hash-prefix configuration

- down-vni-conflict

  The NH is down because of a VNI conflict

  If a network-instance receives multiple EVPN-VXLAN routes from the same VTEP but with different VNI values, only the next-hop

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corresponding to the lowest VNI value is used for forwarding. The other next-hops are marked as down-vni-conflict.

- down-tcam-resources

  The NHG is down because of an underlying TCAM resource issue

  In NHGs where data path egress filtering for combined ECMP relies on ACLs to override the ECMP group ID obtained from route lookup with an alternate ECMP group containing only access next hops, exhaustion of TCAM resources for those ACLs causes the NHG to be marked as down-tcam-resources.

- down-domain-id-conflict

  The NHG is down because of a domain-id conflict

  If a network-instance receives multiple EVPN-VXLAN routes from the same VTEP but with different domain ID values, only the next-hop corresponding to the lowest domain ID value is used for forwarding. The other next-hops are marked as down-domain-id-conflict.

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description Operational state of the next-hop group

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table next-hop-group index *number* oper-state *keyword*

Tree oper-state

Options

- up

  The NHG or NH is fully resolved and operational

- down

  The NHG or NH is unresolved and not viable for carrying traffic

- failed

  The NHG or NH is not operational because of an underlying hardware resource issue

- up-unused

  The NH is up and resolved but not used for carrying traffic, possibly because of resilient-hash-prefix configuration

- down-vni-conflict

  The NH is down because of a VNI conflict

  If a network-instance receives multiple EVPN-VXLAN routes from the same VTEP but with different VNI values, only the next-hop corresponding to the lowest VNI value is used for forwarding. The other next-hops are marked as down-vni-conflict.

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- down-tcam-resources

  The NHG is down because of an underlying TCAM resource issue

  In NHGs where data path egress filtering for combined ECMP relies on ACLs to override the ECMP group ID obtained from route lookup with an alternate ECMP group containing only access next hops, exhaustion of TCAM resources for those ACLs causes the NHG to be marked as down-tcam-resources.

- down-domain-id-conflict

  The NHG is down because of a domain-id conflict

  If a network-instance receives multiple EVPN-VXLAN routes from the same VTEP but with different domain ID values, only the next-hop corresponding to the lowest domain ID value is used for forwarding. The other next-hops are marked as down-domain-id-conflict.

Configurable False

Platforms Supported on all platforms

programming-progress

Description Enter the programming-progress context

State that shows the FIB programming progress of the forwarding complex

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress

Tree programming-progress

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-routes

Description Enter the ip-routes context

Container for the FIB programming state of IP route entries

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress ip-routes

Tree ip-routes

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description	The number of entries that need to be created in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress ip-routes entries-remaining-to-add *number*
Tree	entries-remaining-to-add
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress ip-routes entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-sync-time *string*

Description The time when the forwarding complex last reached sync with the control plane

A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress ip-routes last-sync-time *string*

Tree last-sync-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-labels

Description Enter the mpls-labels context

Container for the FIB programming state of ILM entries

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress mpls-labels

Tree mpls-labels

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description The number of entries that need to be created in order to reach synchronization with the CPM

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress mpls-labels entries-remaining-to-add *number*

Tree entries-remaining-to-add

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress mpls-labels entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description	The time when the forwarding complex last reached sync with the control plane A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress mpls-labels last-sync-time *string*
Tree	last-sync-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-groups

Description	Enter the next-hop-groups context Container for the FIB programming state of next-hop-group (NHG) entries
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress next-hop-groups
Tree	next-hop-groups
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description	The number of entries that need to be created in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress next-hop-groups entries-remaining-to-add *number*
Tree	entries-remaining-to-add
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress next-hop-groups entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-sync-time *string*

Description The time when the forwarding complex last reached sync with the control plane

A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress next-hop-groups last-sync-time *string*

Tree last-sync-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnels

Description Enter the tunnels context

Container for the FIB programming state of tunnels

Context platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress tunnels

Tree tunnels

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-add *number*

Description The number of entries that need to be created in order to reach synchronization with the CPM

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Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress tunnels entries-remaining-to-add *number*
Tree	entries-remaining-to-add
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entries-remaining-to-modify *number*

Description	The number of entries that need to be modified in order to reach synchronization with the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress tunnels entries-remaining-to-modify *number*
Tree	entries-remaining-to-modify
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-sync-time *string*

Description	The time when the forwarding complex last reached sync with the control plane A linecard reaches sync when both entries-remaining-to-add and entries-remaining-to-modify reach zero
Context	platform linecard slot *number* forwarding-complex name *keyword* fib-table programming-progress tunnels last-sync-time *string*
Tree	last-sync-time
String Length	20 to 32
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

healthz

Description Enter the healthz context

The health of the component

The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.

Context platform linecard slot *number* forwarding-complex name *keyword* healthz

Tree healthz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform linecard slot *number* forwarding-complex name *keyword* healthz last-unhealthy *string*

Tree last-unhealthy

String Length 20 to 32

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform linecard slot *number* forwarding-complex name *keyword* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.
- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.
- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

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The number of times the component has transitioned from the healthy state to any other state.

Context platform linecard slot *number* forwarding-complex name *keyword* healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interfaces *string*

Description List of interfaces that belong to this forwarding complex

Context platform linecard slot *number* forwarding-complex name *keyword* interfaces *string*

Tree interfaces

String Length 3 to 22

Configurable False

Platforms Supported on all platforms

last-booted *string*

Description The date and time this component last booted

For components that do not boot, this is the time the component was last discovered by the active control module

Context platform linecard slot *number* forwarding-complex name *keyword* last-booted *string*

Tree last-booted

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

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last-booted-reason *identityref*

Description The reason this component last booted or rebooted

For components without the ability to 'boot' this field is never populated

Context platform linecard slot *number* forwarding-complex name *keyword* last-booted-reason *identityref*

Tree last-booted-reason

Options

- user-initiated-reboot

  A user initiated the reboot directly via a management interface
- power-failure

  The system rebooted the component due to insufficient power
- critical-error

  The system rebooted the component due to an internal critical error

Configurable False

Platforms Supported on all platforms

last-change *string*

Description The date and time this component last changed state

Context platform linecard slot *number* forwarding-complex name *keyword* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

load-balancing

Description Enter the load-balancing context

Load-balancing state presented on a per-forwarding-complex basis

Context platform linecard slot *number* forwarding-complex name *keyword* load-balancing

Tree load-balancing

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B

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hash-user user *keyword*

Description Enter the hash-user list instance

Context platform linecard slot *number* forwarding-complex name *keyword* load-balancing hash-user user *keyword*

Tree hash-user

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B

user *keyword*

Description A user of a load-balancing hash calculation

Context platform linecard slot *number* forwarding-complex name *keyword* load-balancing hash-user user *keyword*

Options

- level-1-fec

  Level 1 (top level) ECMP hash user
- level-2-fec

  Level 2 (middle level) ECMP hash user
- level-3-fec

  Level 3 (bottom level) ECMP hash user
- lag

  LAG hash user
- network-header

  Network header entropy hash user

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B

hash-polynomial *number*

Description An identifier for the polynomial used to calculate the load-balancing key

Context platform linecard slot *number* forwarding-complex name *keyword* load-balancing hash-user user *keyword* hash-polynomial *number*

Tree hash-polynomial

Range 1 to 8

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Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B

mtu

Description Enter the mtu context

Context platform linecard slot *number* forwarding-complex name *keyword* mtu

Tree mtu

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description Enter the resource list instance

Context platform linecard slot *number* forwarding-complex name *keyword* mtu resource name *identityref*

Tree resource

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the MTU resource

Context platform linecard slot *number* forwarding-complex name *keyword* mtu resource name *identityref*

Options

- ip-mtu

  IP MTU resource pool. One resource from this pool is consumed by every different IP MTU value used by the subinterfaces on the linecard forwarding-complex.

- port-mtu

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Port MTU resource pool. One resource from this pool is consumed by every different port MTU value used by a port on the linecard forwarding-complex.

- mpls-mtu

  MPLS MTU resource pool. One resource from this pool is consumed by every different MPLS MTU value used by the subinterfaces on the linecard forwarding-complex.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of resources that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* mtu resource name *identityref* free *number*

Tree free

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description The number of resources that are in use

Context platform linecard slot *number* forwarding-complex name *keyword* mtu resource name *identityref* used *number*

Tree used

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oam

Description Enter the oam context

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Context	platform linecard slot *number* forwarding-complex name *keyword* oam
Tree	oam
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resources

Description	Enter the resources context OAM resources usage and allocation
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources
Tree	resources
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-activation-testhead

Description	Enter the service-activation-testhead context Service activation generator stream and bandwidth resources
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead
Tree	service-activation-testhead
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-allocated-kbps *number*

Description	Active generator bandwidth in use
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead bandwidth-allocated-kbps *number*
Tree	bandwidth-allocated-kbps
Units	kbps

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-free-kbps *number*

Description	Available generator bandwidth
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead bandwidth-free-kbps *number*
Tree	bandwidth-free-kbps
Units	kbps
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bandwidth-total-kbps *number*

Description	Total generator bandwidth supported
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead bandwidth-total-kbps *number*
Tree	bandwidth-total-kbps
Units	kbps
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-allocated *number*

Description	Active generator streams in use
Context	platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead stream-allocated *number*
Tree	stream-allocated
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stream-free *number*

Description Available generator streams

Context platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead stream-free *number*

Tree stream-free

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stream-total *number*

Description Total generator streams supported

Context platform linecard slot *number* forwarding-complex name *keyword* oam resources service-activation-testhead stream-total *number*

Tree stream-total

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of this component

Context platform linecard slot *number* forwarding-complex name *keyword* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image

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- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

p4rt

Description Top-level container for P4Runtime forwarding complex configuration and state

Context platform linecard slot *number* forwarding-complex name *keyword* p4rt

Tree p4rt

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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id *number*

Description	The numeric ID used by the controller to address the forwarding complex This ID may be referred to as a 'device', 'node' or 'target' by the P4RT specification. Each ASIC is addressed by the client based on this numeric identifier.
Context	platform linecard slot *number* forwarding-complex name *keyword* p4rt id *number*
Tree	id
Range	1 to 18446744073709551615
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

part-number *string*

Description	Part number for this component
Context	platform linecard slot *number* forwarding-complex name *keyword* part-number *string*
Tree	part-number
Configurable	False
Platforms	Supported on all platforms

pipeline index *(number | keyword)*

Description	List of pipelines that make up one forwarding complex.
Context	platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)*
Tree	pipeline
Configurable	True
Platforms	7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *(number | keyword)*

Description The pipeline number (TH3 systems) or direction (J2 and J2C+ systems).

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)*

Range 0 to 7

Options

- egress

  Applicable to J2 and J2C+ systems only

- ingress

  Applicable to J2 and J2C+ systems only

Configurable True

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

datapath

Description Enter the datapath context

Container for monitoring datapath resources of a particular pipeline

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath

Tree datapath

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

xdp

Description Enter the xdp context

Container for monitoring datapath resources that are generic in concept.

At the pipeline level only one XDP resource is currently reported:

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp

Tree xdp

Configurable False

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Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description List of generic datapath resources.

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp resource name *identityref*

Tree resource

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the XDP datapath resource

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp resource name *identityref*

Options

- arp-nd-entries

  IPv4 ARP and IPv6 neighbor discovery resources

  Each IPv4 ARP and each IPv6 neighbor entry counts as 1 used resource against a total that is platform dependent.

- ip-hosts

  IP host route resources

  7215 IXS-A1: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

  7220 D1/D2/D3: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every IPv4 multicast snoop entry requires 2 entries. In non-ALPM operation every remote /32 route also requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every IPv6 multicast snoop entry requires 4 entries. In non-ALPM operation every remote /128 route also requires 2 entries. Free entries reflects the total number of entries remaining in shared + dedicated UFT banks.

  7220 D4/D5: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address

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requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every (*, G) IPv4 multicast snoop entry requires 1 entry. Every (S, G) IPv4 multicast snoop entry requires 2 entries. Every (*, G) IPv6 multicast snoop entry requires 2 entries. Every (S, G) IPv6 multicast snoop entry requires 4 entries.

7220 H2/H3/H4/H5/H6: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

- ip-lpm-routes

  IP longest prefix match route resources

  7250 IXR/IXRe: Every installed IPv4 and IPv6 route counts as one used route.

  7220 D1/D2/D3: In ALPM-disabled mode: Reports the number of half-wide entries. An IPv4 route requires a half-wide entry. An IPv6 route that is /64 or less requires a single-wide entry (2 half-wide entries). An IPv6 route that is more than /64 requires a double-wide entry (4 half-wide entries). In ALPM mode: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 2 used routes.

  7220 D4/D5: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 4 used routes.

- mac-addresses

  MAC lookup table resources

  Reports the number of entries used in the MAC lookup table. On 7220 D1/D2/D3/D4/D5, free entries reflects the total number of entries remaining in shared + dedicated UFT banks

- mac-next-hops

  Direct MAC next-hop resources

  A resource that is consumed by each next-hop of a gRIBI route or an EVPN IFF unnumbered route, where the next-hop is specified as an interface name combined with a MAC address

- direct-ip-next-hops

  Direct IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route or MPLS route/tunnel that is resolved directly to a local interface.

- indirect-ip-next-hops

  Indirect IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route that requires resolution by a non-local route. This does not consider underlying ASIC resources.

- multicast-route

  multicast route resources

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7250 X3b/X1b/IXR/IXRe: Reports the number of entries used in the multicast route table.

- tunnel-next-hops

  Tunnel next-hop resources

  Reports the number of tunnel next-hop entries. 1 tunnel next-hop is required every time an indirect next-hop (e.g. a BGP next-hop) is resolved by a tunnel (BGP-LU, LDP, SR-ISIS or VXLAN)

- ecmp-groups

  ECMP group resources

  7250 IXR/IXRe: Reports the used number of ECMP FECs, adding L1 ECMP FECs, L2 ECMP FECs and L3 ECMP FECs.

  7220 D1/D2/D3/D4/D5: Reports the used number of ECMP groups, adding overlay and underlay ECMP groups (if applicable).

  7220 H2/H3/H4: Reports used number of ECMP groups.

- ecmp-members

  ECMP member resources

  7250 IXR/IXRe: Reports the used number of ECMP member FECs, adding L1 ECMP member FECs, L2 ECMP member FECs and L3 ECMP member FECs.

  7220 D1/D2/D3/D4/D5: Reports the used number of ECMP members, adding overlay and underlay ECMP members (if applicable).

  7220 H2/H3/H4: Reports used number of ECMP members.

- egress-next-hops

  Egress next-hop resources

  7215 IXS-A1: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 D2/D3/D4/D5: Reports the number of entries used in the egress next-hop table, counting entries in the overlay partition and entries in the underlay partition. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 H2/H3/H4/H5/H6: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

- lag-groups

  LAG group resources

  Reports the number of LAG resources used, including DGPP LAGs.

- lag-members

  LAG member resources

  Reports the number of LAG member resources used, including DGPP LAG members.

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- subinterfaces

  Subinterface resources

  There are a maximum of 127 subinterfaces per TH3 pipeline (limited by VFP/EFP TCAM resources). This counts the utilization of those resources.

- mpls-next-hops

  MPLS next-hop (NHLFE) resources

  One resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an ILM entry that performs a 'swap'. One additional resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an MPLS tunnel.

- mpls-incoming-labels

  MPLS label lookup (ILM) resources

  One resource is used for every MPLS ILM entry that performs either a 'swap' or a 'pop' operation.

- originating-tunnels

  Originating tunnel resources

  One resource is used for every VXLAN, LDP, SR-ISIS or IPinIP tunnel originating on this node as head-end. On TD and TD4 systems this equates to a DVP resource.

- terminating-tunnels

  Terminating tunnel resources

  One resource is used for every IPinIP tunnel terminating entry on this node.

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-entries *number*

Description The number of entries that are currently free

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250

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IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description The number of entries that are currently used

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp resource name *identityref* used-entries *number*

Tree used-entries

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description The percentage of the resource that is currently used

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* datapath xdp resource name *identityref* used-percent *number*

Tree used-percent

Range 0 to 100

Configurable False

Platforms 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pipeline-counters

Description Enter the pipeline-counters context

Top-level container for the packet counters associated with the different NPU sub-blocks.

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters

Tree pipeline-counters

Configurable False

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-interface-block

Description Enter the host-interface-block context

The ASIC host interface block subsystem that connects the NPU to the host CPU (on the CPM)

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block

Tree host-interface-block

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-extraction

Description Enter the packet-extraction context

Packet extraction from the NPU towards the CPU

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction

Tree packet-extraction

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extracted-octets *number*

Description The number of octets in Ethernet frames extracted towards the CPU from the pipeline; this includes packets that might be dropped (due to congestion or rate limiting) before reaching the final consuming application on the CPM

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extracted-octets *number*

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Tree	extracted-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extracted-packets *number*

Description	The number of Ethernet frames extracted towards the CPU from the pipeline; this includes packets that might be dropped (due to congestion or rate limiting) before reaching the final consuming application on the CPM
Context	platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extracted-packets *number*
Tree	extracted-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extraction-reason reason *identityref*

Description	List of extraction reasons that are possible for the pipeline
Context	platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extraction-reason reason *identityref*
Tree	extraction-reason
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reason *identityref*

Description	A reason for extracting the packet towards the host CPU

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Context

platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extraction-reason reason *identityref*

Options

- ipv4-header-options

  IPv4 header options are present in the packet.
- ipv6-hop-by-hop-option

  IPv6 packet with topmost next-header value of zero.
- icmp

  ICMPv4 packets with this router as destination.
- icmp6

  ICMPv6 packets including neighbor-solicitation and neighbor-advertisement messages.
- icmp-redirect

  Received IPv4 and IPv6 packets that should cause an ICMP redirect to be generated.
- bfd

  BFD and micro-BFD packets with this router as destination.
- bgp

  BGP packets; TCP port 179.
- grpc

  GRPC packets; TCP port 57400
- ike

  IKE (IPsec Internet Key Exchange) packets; UDP port 500
- ospf

  OSPF packets; IP protocol 89
- vrrp

  VRRP packets; IP protocol 112
- ldp

  LDP packets; UDP port 646
- dhcp

  DHCP packets; UDP ports 67,68
- ip-other-terminating

  Any other IP packets that are locally destined
- ip-blackhole-icmp

  Traffic matched a blackhole route with generate-icmp=true
- ipv6-multicast

  IPv6 DA = FF01:0:0:0:0:0:0:1 or IPv6 DA = FF01:0:0:0:0:0:0:2

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- ipv6-link-local

  IPv6 DA = FE80::/10 address
- ipv4-broadcast

  IPv4 packets were received with a subnet broadcast address or a limited broadcast and not recognized as another type
- ip-no-route

  IPv4 and IPv6 packets for which there was no route to the destination
- ip-header-errors

  IP version error, IP header checksum error, IP header length error, IP header total length error, IPv6 next-header is null, IPv6 SA is link-local while IPv6 DA is global
- ip-ttl-expired

  The IP packet is not destined for this router and it was received with TTL 0 or TTL 1
- mpls-ttl-expired

  The MPLS packet was received with MPLS label stack TTL 0 or TTL 1
- ip-arp-miss

  The IP DA itself or the next-hop of the route used to forward the packet has no ARP/IPv6 neighbor entry
- ip-arp

  The received frame is an ARP packet recognized by ethertype 0x0806
- lldp

  The received frame is an LLDP packet recognized by ethertype 0x88cc
- isis

  The received frame is an ISIS packet
- lacp

  The received frame is an LACP packet
- google-discovery

  The received frame is a GDP packet recognized by ethertype 0x6007
- capture-filter-copy

  Packets matching a capture-filter copy rule
- cpm-filter-log

  Packets matching a CPM-filter rule with log action
- ingress-acl-log

  Packets matching an interface IP filter rule with log action
- ingress-acl-reject

  Packets matching an interface IP filter rule with reject action
- egress-acl-log

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Packet matched an egress ACL rule with log action.

- ip-mpls-mtu-exceeded

  The egress subinterface IP MTU or MPLS MTU (as applicable) is less than the size of the IP or MPLS packet that needs to be transmitted.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extracted-octets *number*

Description The number of octets in Ethernet frames extracted towards the CPU from the pipeline; this includes packets that might be dropped (due to congestion or rate limiting) before reaching the final consuming application on the CPM

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extraction-reason reason *identityref* extracted-octets *number*

Tree extracted-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extracted-packets *number*

Description The number of Ethernet frames extracted towards the CPU from the pipeline; this includes packets that might be dropped (due to congestion or rate limiting) before reaching the final consuming application on the CPM

Context platform linecard slot *number* forwarding-complex name *keyword* pipeline index *(number | keyword)* pipeline-counters host-interface-block packet-extraction extraction-reason reason *identityref* extracted-packets *number*

Tree extracted-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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qos

Description Enter the qos context

Context platform linecard slot *number* forwarding-complex name *keyword* qos

Tree qos

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description Enter the resource list instance

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource name *identityref*

Tree resource

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the QoS resource

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource name *identityref*

Options

- classifier-profiles

  A classifier-profile resource is used every time a different combination of IPv4 DSCP classifier and IPv6 DSCP classifier is applied to an ingress subinterface. One is always used by the combination of the default IPv4 DSCP classifier and the default IPv6 DSCP classifier.

- rewrite-profiles

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A rewrite-profile resource is used every time a different combination of IPv4 DSCP rewrite-rule and IPv6 DSCP rewrite-rule is applied to an egress subinterface.

- dscp-classifier-policies

  Every user-defined DSCP classifier policy that is configured uses one of these resources

- dscp-mpls-rewrite-policies

  A rewrite-policy resource is used every time a different DSCP or MPLS traffic-class rewrite-rule policy is applied to an egress subinterface.

- mpls-classifier-policies

  Every user-defined mpls traffic class classifier policy that is configured uses one of these resources

- mpls-rewrite-policies

  An mpls-rewrite-policy resource is used every time a different MPLS traffic-class rewrite-rule policy is applied to at least one egress subinterface on this forwarding-complex.

- dscp-rewrite-policies

  Every user-defined dscp rewrite policy that is configured uses one of these resources.

- dot1p-classifier-policies

  Every user-defined dot1p classifier policy that is configured uses one of these resources

- dot1p-rewrite-policies

  Every user-defined dot1p rewrite policy that is configured uses one of these resources

- input-policers

  Every input-policer that is allocated to the configured subinterfaces based on input-class-map

- output-class-maps

  Every output class map that is applied to at least one egress subinterface on this forwarding-complex, uses one of these resources.

- slope-policies

  Every user-defined qos buffer management slope policy that is configured uses one of these resources

- input-class-maps

  Every qos input class map that is applied to at least one qos subinterface input on this forwarding-complex, uses one of these resources.

- dscp-reclassify-policies

  Every user-defined dscp reclassify policy that is configured uses one of these resources

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- ip-rewrite-policies

  Every user-defined ip rewrite policy that is configured uses one of these resources

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of resources that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource name *identityref* free *number*

Tree free

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description The number of resources that are in use

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource name *identityref* used *number*

Tree used

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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resource-set-pool index *number*

Description	Enter the resource-set-pool list instance
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number*
Tree	resource-set-pool
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	Resource-set-pool resources for the given forwarding-complex Contains resource-group resources.
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number*
Range	0 to 3
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-group-resource-pool index *number*

Description	Interface-group-resource-pool resources for the given resource-set-pool Contains the resource-groups which have been allocated to this interface-group-resource-pool.
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number*
Tree	interface-group-resource-pool
Configurable	False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Enter the index context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number*

Range 0 to 15

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-group index *number*

Description Resource-group resources for the given interface-group-resource-pool

Describes the number of resource-sets used and free within the resource-group. A resource-set consists of 1 output-queue, and 1 tier-0 queue-scheduler, which is allocated to every configured subinterface.

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-group index *number*

Tree resource-group

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description Enter the index context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-group index *number*

Range 0 to 61

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-sets

Description Enter the resource-sets context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-group index *number* resource-sets

Tree resource-sets

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of resource-sets that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-group index *number* resource-sets free *number*

Tree free

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description	The number of resource-sets that are in use
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-group index *number* resource-sets used *number*
Tree	used
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-sets

Description	Enter the resource-sets context
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-sets
Tree	resource-sets
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description	The number of resource-sets that are in use

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Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* resource-sets used *number*

Tree used

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tier-0-schedulers

Description Enter the tier-0-schedulers context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-0-schedulers

Tree tier-0-schedulers

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of tier 0 schedulers that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-0-schedulers free *number*

Tree free

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description The number of tier 0 schedulers that are in use by virtual interfaces

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-0-schedulers used *number*

Tree used

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tier-1-schedulers

Description Enter the tier-1-schedulers context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-1-schedulers

Tree tier-1-schedulers

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of tier 1 schedulers that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-1-schedulers free *number*

Tree free

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description	The number of tier 1 schedulers that are in use by virtual interfaces
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* interface-group-resource-pool index *number* tier-1-schedulers used *number*
Tree	used
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-groups

Description	Enter the resource-groups context
Context	platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-groups
Tree	resource-groups
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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free *number*

Description The number of resource-groups that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-groups free *number*

Tree free

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description The number of resource-groups that are in use

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-groups used *number*

Tree used

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource-sets

Description Enter the resource-sets context

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-sets

Tree resource-sets

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free *number*

Description The number of resource-sets that are unused and available

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-sets free *number*

Tree free

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used *number*

Description The number of resource-sets that are in use

Context platform linecard slot *number* forwarding-complex name *keyword* qos resource-set-pool index *number* resource-sets used *number*

Tree used

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

removable *boolean*

Description Details if this component can be removed from the system

Context platform linecard slot *number* forwarding-complex name *keyword* removable *boolean*

Tree removable

Configurable False

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Platforms	Supported on all platforms

tcam

Description	Enter the tcam context
Context	platform linecard slot *number* forwarding-complex name *keyword* tcam
Tree	tcam
Configurable	False
Platforms	Supported on all platforms

resource name *identityref*

Description	Enter the resource list instance
Context	platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref*
Tree	resource
Configurable	False
Platforms	Supported on all platforms

name *identityref*

Description	The name of the TCAM resource
Context	platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref*
Options	• match-action-ipv4 Resource pool of TCAM entries used by match-action policies with IPv4 rules • match-action-ipv6 Resource pool of TCAM entries used by match-action policies with IPv6 rules • if-input-ipv4 Resource pool of TCAM entries used by IPv4 ACLs applied as subinterface-input filters • if-input-ipv4-mac Resource pool of TCAM entries used by IPv4 and MAC ACLs applied as subinterface-input filters • if-output-ipv4

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Resource pool of TCAM entries used by IPv4 ACLs applied as subinterface-output filters

- if-input-ipv6

  Resource pool of TCAM entries used by IPv6 ACLs applied as subinterface-input filters

- if-output-ipv6

  Resource pool of TCAM entries used by IPv6 ACLs applied as subinterface-output filters

- cpm-capture-ipv4

  Resource pool of TCAM entries used by IPv4 cpm-filter ACLs and capture-filter ACLs

- cpm-capture-ipv6

  Resource pool of TCAM entries used by IPv6 cpm-filter ACLs and capture-filter ACLs

- system-capture-ipv4

  Resource pool of TCAM entries used by IPv4 capture-filter ACLs and IPv4 system-filter ACLs

- system-capture-ipv6

  Resource pool of TCAM entries used by IPv6 capture-filter ACLs and IPv6 system-filter ACLs

- system-capture

  Resource pool of TCAM entries used by IPv4 + IPv6 capture-filter ACLs and system-filter ACLs

- capture-ipv4

  Resource pool of TCAM entries used by IPv4 capture-filter ACLs

- capture-ipv6

  Resource pool of TCAM entries used by IPv6 capture-filter ACLs

- if-output-cpm-ipv4

  Resource pool of TCAM entries used by IPv4 egress ACLs and cpm-filter ACLs

- if-output-cpm-ipv4-mac

  Resource pool of TCAM entries used by IPv4 and MAC egress ACLs and cpm-filter ACLs

- if-output-cpm-ipv6

  Resource pool of TCAM entries used by IPv6 egress ACLs and cpm-filter ACLs

- if-output-cpm

  Resource pool of TCAM entries used by IPv4 + IPv6 egress ACLs and cpm-filter ACLs

- if-input-mac

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Resource pool of TCAM entries used by MAC ACLs applied as subinterface-input filters

- if-output-mac

  Resource pool of TCAM entries used by MAC egress ACLs

- if-output-cpm-mac

  Resource pool of TCAM entries used by MAC egress ACLs and MAC cpm-filter ACLs

- policy-forwarding-vrf-selection-ipv4

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a different network-instance

- policy-forwarding-vrf-selection-ipv6

  Resource pool of TCAM entries used by IPv6 policy-forwarding entries that redirect flows to a different network-instance

- policy-forwarding-vrf-selection-ipv4-and-gre-udp-decap

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a different network-instance and IPv4/IPv6 global-decap policy rules that perform GRE, MPLSoUDP and IPoGUE decapsulation

- policy-forwarding-nhg-ipv4

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a NHG of IP next-hops or tunnels

  On TD4 systems IPv6 policy-forwarding entries share this resource with IPv4 entries.

- policy-forwarding-nhg-ipv6

  Resource pool of TCAM entries used by IPv6 policy-forwarding entries that redirect flows to a NHG of IP next-hops or tunnels

- policy-forwarding-selective-load-balancing

  Resource pool of TCAM entries used by the selective-DLB match that enables/disables dynamic-load-balancing for a subset of traffic

- if-input-policer

  Resource pool of TCAM entries used by ingress subinterface policer templates

- if-input-ipv4-qos

  Resource pool of TCAM entries associated with IPv4 multi-field QoS classification entries, when applied to subinterface input

- if-input-ipv6-qos

  Resource pool of TCAM entries associated with IPv6 multi-field QoS classification entries, when applied to subinterface input

- mrouter-mfib-redirect

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Resource pool of TCAM entries used by multicast snooping protocols in MAC-VRF network-instances

One TCAM entry is used per multicast snooping protocol enabled in a MAC-VRF. For instance, if igmp-snooping and mld-snooping are enabled on a MAC-VRF, two entries are used. If only igmp-snooping is enabled, only one entry is used.

- tunnel-decap-ipv4-ipv6

  Resource pool of TCAM entries used for IPv4 and IPv6 tunnel-decapsulation groups

  Only applicable to Gen2c+

- if-output-evpn-mh-multicast-non-df

  Resource pool of TCAM entries used by egress filtering of IP multicast traffic to non-Designated Forwarder subinterfaces

  One TCAM entry is used when multicast snooping protocols are enabled on at least one MAC-VRF that has one or more subinterfaces associated with Ethernet Segments.

- dot1x-multi-host-authentication-guard

  Resource pool of TCAM entries used for dot1x multi host authentication

  This is used for any protocol that uses multi host including dot1x or MBA.

- input-first-hop-security-ip-source-guard

  Resource pool of TCAM entries used for IP source guard.

- input-first-hop-security-ipv4-source-guard

  Resource pool of TCAM entries used for IPv4 source guard entries.

- input-first-hop-security-ipv6-source-guard

  Resource pool of TCAM entries used for IPv6 source guard entries.

- gbp-ingress

  Resource pool of TCAM entries used for Group Based Policy entries.

- combined-ecmp-redirect

  Resource pool of TCAM entries used for combined ECMP and gateway-IP load balancing with data path egress filtering

  One TCAM entry is used per NHG for combined ECMP and gateway-IP load balancing with data path egress filtering. The TCAM entry is used to override the ECMP group ID obtained from route lookup with an alternate ECMP group containing only access next hops.

Configurable False

Platforms Supported on all platforms

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free-dynamic *number*

Description The number of available and unused TCAM entries for the entry type, assuming that all the remaining unused TCAM slices would be dynamically allocated to this one type of entry (subject to chip level constraints on the placement of double-wide and triple-wide TCAM slice groups).

Context platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref* free-dynamic *number*

Tree free-dynamic

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-static *number*

Description The number of available and unused TCAM entries for the entry type, assuming that the number of dynamic TCAM slices that are currently allocated to the entry type remains constant at its current value.

Context platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref* free-static *number*

Tree free-static

Configurable False

Platforms Supported on all platforms

programmed *number*

Description The number of TCAM entries belonging to this resource that are currently programmed into hardware. When the number of programmed entries equals the number of reserved entries HW programming of this resource type has finished.

Context platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref* programmed *number*

Tree programmed

Configurable False

Platforms Supported on all platforms

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reserved *number*

Description The number of TCAM entries that are currently reserved in this resource pool. Reservation happens when a configuration change is committed. Reserved entries may not be programmed yet if the commit has just occurred.

Context platform linecard slot *number* forwarding-complex name *keyword* tcam resource name *identityref* reserved *number*

Tree reserved

Configurable False

Platforms Supported on all platforms

healthz

Description Enter the healthz context

The health of the component

The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.

Context platform linecard slot *number* healthz

Tree healthz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description Last unhealthy time

The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.

Context platform linecard slot *number* healthz last-unhealthy *string*

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Tree last-unhealthy

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform linecard slot *number* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

Context platform linecard slot *number* healthz unhealthy-count *number*

Tree unhealthy-count

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-booted *string*

Description The date and time this component last booted

For components that do not boot, this is the time the component was last discovered by the active control module

Context platform linecard slot *number* last-booted *string*

Tree last-booted

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

last-booted-reason *identityref*

Description The reason this component last booted or rebooted

For components without the ability to 'boot' this field is never populated

Context platform linecard slot *number* last-booted-reason *identityref*

Tree last-booted-reason

Options

- user-initiated-reboot

  A user initiated the reboot directly via a management interface
- power-failure

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The system rebooted the component due to insufficient power

- critical-error

  The system rebooted the component due to an internal critical error

Configurable False

Platforms Supported on all platforms

last-change *string*

Description The date and time this component last changed state

Context platform linecard slot *number* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

locator-state *keyword*

Description Details if the locator LED is active on this component

Context platform linecard slot *number* locator-state *keyword*

Tree locator-state

Default inactive

Options

- active

  Locator LED is currently active

- inactive

  Locator LED is currently inactive

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

manufactured-date *string*

Description The date this component was manufactured

Context platform linecard slot *number* manufactured-date *string*

Tree manufactured-date

String Length 20 to 32

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Configurable	False
Platforms	Supported on all platforms

memory

Description	Enter the memory context Top-level container for system memory state
Context	platform linecard slot *number* memory
Tree	memory
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

free *number*

Description	Memory available for system use
Context	platform linecard slot *number* memory free *number*
Tree	free
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

physical *number*

Description	Total physical memory available on this component
Context	platform linecard slot *number* memory physical *number*
Tree	physical
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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reserved *number*

Description	Memory reserved for system use
Context	platform linecard slot *number* memory reserved *number*
Tree	reserved
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

utilization *number*

Description	Total memory utilized
Context	platform linecard slot *number* memory utilization *number*
Tree	utilization
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

oper-state *keyword*

Description	The operational state of this component
Context	platform linecard slot *number* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image

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- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

part-number *string*

Description Part number for this component

Context platform linecard slot *number* part-number *string*

Tree part-number

Configurable False

Platforms Supported on all platforms

power

Description Enter the power context

State related to power consumption and allocation for this component

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Context	platform linecard slot *number* power
Tree	power
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

required *number*

Description	The power budget required to enable this component
Context	platform linecard slot *number* power required *number*
Tree	required
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

used *number*

Description	The power in use by this component
Context	platform linecard slot *number* power used *number*
Tree	used
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

rebooting-at *string*

Description	Indicates the date and time this component will reboot If empty, no delayed reboots are queued for this component. A non empty value implies that a delayed reboot operation has been triggered for this component, which can be aborted using 'tools platform <component> reboot cancel'.
Context	platform linecard slot *number* rebooting-at *string*
Tree	rebooting-at

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

removable *boolean*

Description	Details if this component can be removed from the system
Context	platform linecard slot *number* removable *boolean*
Tree	removable
Configurable	False
Platforms	Supported on all platforms

serial-number *string*

Description	The serial number for this component
Context	platform linecard slot *number* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	Supported on all platforms

software-version *string*

Description	Image version version running on this component This version is the squashfs version, and may not represent the current per-application versions if versions have been modified after the system has been installed.
Context	platform linecard slot *number* software-version *string*
Tree	software-version
Configurable	False
Platforms	Supported on all platforms

temperature

Description	Enter the temperature context State related to temperature for this component

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Context	platform linecard slot *number* temperature
Tree	temperature
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

alarm-status *boolean*

Description	Indicates if a temperature sensor of this component is currently in an alarm state An alarm state is triggered if the margin is <=2 degrees, indicating that a thermal protection shut down is imminent unless adequate system cooling is provided to bring the temperature sensor back into safe operating ranges.
Context	platform linecard slot *number* temperature alarm-status *boolean*
Tree	alarm-status
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

instant *number*

Description	Represents the highest current temperature of any sensor on this component Note that as multiple sensors may feed in, that this field and the margin field may be referencing different sensors.
Context	platform linecard slot *number* temperature instant *number*
Tree	instant
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

margin *number*

Description	Indicates the lowest alarm margin of any sensor on this component The margin is the delta between the current sensor temperature and the thermal protection threshold for that sensor. Note that as multiple sensors

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may feed in, that this field and the instant field may be referencing different sensors.

Context platform linecard slot *number* temperature margin *number*

Tree margin

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

maximum *number*

Description Represents the highest temperature any sensor on this component has reached since it booted

Context platform linecard slot *number* temperature maximum *number*

Tree maximum

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

maximum-time *string*

Description Indicates the time this component reached the temperature referenced in the maximum field

Context platform linecard slot *number* temperature maximum-time *string*

Tree maximum-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

type *string*

Description Linecard type, as read from the physical assembly

Context platform linecard slot *number* type *string*

Tree type

Configurable False

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Platforms	Supported on all platforms

power-supply id *number*

Description	Top-level container for power supply module configuration and state
Context	platform power-supply id *number*
Tree	power-supply
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	Numeric identifier for the power supply module
Context	platform power-supply id *number*
Range	1 to 255
Configurable	False
Platforms	Supported on all platforms

capacity *number*

Description	The total capacity the power supply module can provide
Context	platform power-supply id *number* capacity *number*
Tree	capacity
Units	watts
Configurable	False
Platforms	Supported on all platforms

clei-code *string*

Description	The Common Language Identification Code for this component
Context	platform power-supply id *number* clei-code *string*
Tree	clei-code
Configurable	False
Platforms	Supported on all platforms

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failure-reason *string*

Description	The reason the component transitioned to a failed state Once set, field persists until component is operationally up, otherwise it is empty if the component is not currently in a failure state
Context	platform power-supply id *number* failure-reason *string*
Tree	failure-reason
Configurable	False
Platforms	Supported on all platforms

fan

Description	Enter the fan context Top-level container for state relating to fans
Context	platform power-supply id *number* fan
Tree	fan
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

speed *number*

Description	The current speed of the fan
Context	platform power-supply id *number* fan speed *number*
Tree	speed
Range	0 to 100
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

speed-rpm *number*

Description	The current RPM of the fan
Context	platform power-supply id *number* fan speed-rpm *number*
Tree	speed-rpm

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

feed id *number*

Description	List of feeds on this power-supply
Context	platform power-supply id *number* feed id *number*
Tree	feed
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

id *number*

Description	ID of the feed
Context	platform power-supply id *number* feed id *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

current *decimal-number*

Description	Current input amperage of this feed
Context	platform power-supply id *number* feed id *number* current *decimal-number*
Tree	current
Units	amps
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

voltage *decimal-number*

Description	Current input voltage for this feed

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Context	platform power-supply id *number* feed id *number* voltage *decimal-number*
Tree	voltage
Units	volts
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

healthz

Description	Enter the healthz context The health of the component The paramaters within this container indicate the status of the component beyond whether it is operationally up or down. When a signal is received that a component is in an unhealthy state the gNOI.Healthz service can be used to retrieve further diagnostic information relating to the component. The contents of this directory relate only to the specific component that it is associated with.
Context	platform power-supply id *number* healthz
Tree	healthz
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-unhealthy *string*

Description	Last unhealthy time The time at which the component was last observed to transition from the healthy state to any other state, represented as nanoseconds since the Unix epoch.
Context	platform power-supply id *number* healthz last-unhealthy *string*
Tree	last-unhealthy
String Length	20 to 32
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Health status

The status of the component, indicating its current health.

Context platform power-supply id *number* healthz status *keyword*

Tree status

Options

- unspecified

  Unspecified status

  The component's health status has not yet been checked by the system.

- healthy

  Healthy status

  The component is in a healthy state, and is operating within the expected parameters.

- unhealthy

  Unhealthy status

  The component is in a unhealthy state, it is not performing the function expected of it.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unhealthy-count *number*

Description Unhealthy count

The number of times the component has transitioned from the healthy state to any other state.

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Context	platform power-supply id *number* healthz unhealthy-count *number*
Tree	unhealthy-count
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input

Description	Enter the input context Top-level container for power-supply input state
Context	platform power-supply id *number* input
Tree	input
Configurable	False
Platforms	Supported on all platforms

current *decimal-number*

Description	Current amperage input/output for the power-supply
Context	platform power-supply id *number* input current *decimal-number*
Tree	current
Units	amps
Configurable	False
Platforms	Supported on all platforms

power *decimal-number*

Description	Current power input/output for the power-supply
Context	platform power-supply id *number* input power *decimal-number*
Tree	power
Units	watts
Configurable	False

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Platforms	Supported on all platforms

voltage *decimal-number*

Description	Current voltage input/output for the power-supply
Context	platform power-supply id *number* input voltage *decimal-number*
Tree	voltage
Units	volts
Configurable	False
Platforms	Supported on all platforms

last-booted *string*

Description	The date and time this component last booted For components that do not boot, this is the time the component was last discovered by the active control module
Context	platform power-supply id *number* last-booted *string*
Tree	last-booted
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-booted-reason *identityref*

Description	The reason this component last booted or rebooted For components without the ability to 'boot' this field is never populated
Context	platform power-supply id *number* last-booted-reason *identityref*
Tree	last-booted-reason
Options	• user-initiated-reboot A user initiated the reboot directly via a management interface • power-failure The system rebooted the component due to insufficient power • critical-error The system rebooted the component due to an internal critical error
Configurable	False
Platforms	Supported on all platforms

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last-change *string*

Description	The date and time this component last changed state
Context	platform power-supply id *number* last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

manufactured-date *string*

Description	The date this component was manufactured
Context	platform power-supply id *number* manufactured-date *string*
Tree	manufactured-date
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

oper-reason *keyword*

Description	Indicates the reason for the current state of the component
Context	platform power-supply id *number* oper-reason *keyword*
Tree	oper-reason
Options	• no-input/fault No power input, or other hardware fault detected • eeprom-invalid EEPROM of this power supply is either invalid or corrupt • airflow-mismatch The detected airflow of this power supply does not match the system-calculated airflow direction The logic for determining the system-calculated direction is: - Majority wins between present fan trays - In the case where there are equal F2B or B2F fan-trays, PSUs are used as a tie break (PSUs only are counted in the event a tie breaker is needed) - F2B wins if no tie break can be used
Configurable	False
Platforms	Supported on all platforms

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oper-state *keyword*

Description The operational state of this component

Context platform power-supply id *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	Supported on all platforms

output

Description	Enter the output context Top-level container for power-supply output state
Context	platform power-supply id *number* output
Tree	output
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

current *decimal-number*

Description	Current amperage input/output for the power-supply
Context	platform power-supply id *number* output current *decimal-number*
Tree	current
Units	amps
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

power *decimal-number*

Description	Current power input/output for the power-supply
Context	platform power-supply id *number* output power *decimal-number*
Tree	power
Units	watts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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voltage *decimal-number*

Description	Current voltage input/output for the power-supply
Context	platform power-supply id *number* output voltage *decimal-number*
Tree	voltage
Units	volts
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

part-number *string*

Description	Part number for this component
Context	platform power-supply id *number* part-number *string*
Tree	part-number
Configurable	False
Platforms	Supported on all platforms

removable *boolean*

Description	Details if this component can be removed from the system
Context	platform power-supply id *number* removable *boolean*
Tree	removable
Configurable	False
Platforms	Supported on all platforms

serial-number *string*

Description	The serial number for this component
Context	platform power-supply id *number* serial-number *string*
Tree	serial-number
Configurable	False
Platforms	Supported on all platforms

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temperature

Description Enter the temperature context

State related to temperature for this component

Context platform power-supply id *number* temperature

Tree temperature

Configurable False

Platforms Supported on all platforms

alarm-status *boolean*

Description Indicates if a temperature sensor of this component is currently in an alarm state

An alarm state is triggered if the margin is <=2 degrees, indicating that a thermal protection shut down is imminent unless adequate system cooling is provided to bring the temperature sensor back into safe operating ranges.

Context platform power-supply id *number* temperature alarm-status *boolean*

Tree alarm-status

Configurable False

Platforms Supported on all platforms

instant *number*

Description Represents the highest current temperature of any sensor on this component

Note that as multiple sensors may feed in, that this field and the margin field may be referencing different sensors.

Context platform power-supply id *number* temperature instant *number*

Tree instant

Configurable False

Platforms Supported on all platforms

maximum *number*

Description Represents the highest temperature any sensor on this component has reached since it booted

Context platform power-supply id *number* temperature maximum *number*

Tree maximum

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Configurable	False
Platforms	Supported on all platforms

maximum-time *string*

Description	Indicates the time this component reached the temperature referenced in the maximum field
Context	platform power-supply id *number* temperature maximum-time *string*
Tree	maximum-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

type *string*

Description	Power-supply type, as translated from the components EEPROM
Context	platform power-supply id *number* type *string*
Tree	type
Configurable	False
Platforms	Supported on all platforms

qos

Description	Enter the qos context
Context	platform qos
Tree	qos
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank-stats-mode *keyword*

Description	Defines bank-stats-mode at system level.

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Changing the bank-stats-mode requires the system reboot

Context platform qos bank-stats-mode *keyword*

Tree bank-stats-mode

Default multicast

Options
- multicast
- ecn

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O

chassis-reboot-required *boolean*

Description Reads true if the user has committed a change in traffic-management-mode or bank-stats-mode. The change will take effect only after reboot

Context platform qos chassis-reboot-required *boolean*

Tree chassis-reboot-required

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-management-mode *keyword*

Description Defines traffic-management-mode at system level.

Changing the traffic-management-mode requires the system reboot

Context platform qos traffic-management-mode *keyword*

Tree traffic-management-mode

Default eight-priorities

Options
- two-priorities
- eight-priorities

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

redundancy

Description Enter the redundancy context

Top-level container for platform redundancy

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Context	platform redundancy
Tree	redundancy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

control-plane

Description	Enter the control-plane context Top-level container for control plane redundancy
Context	platform redundancy control-plane
Tree	control-plane
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

active-module *keyword*

Description	Control module currently active
Context	platform redundancy control-plane active-module *keyword*
Tree	active-module
Options	• A • B
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

failover-time *string*

Description	Date and time of the last control module failover
Context	platform redundancy control-plane failover-time *string*
Tree	failover-time
String Length	20 to 32
Configurable	False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

synchronization

Description	Enter the synchronization context Top-level container for redundancy synchronization
Context	platform redundancy control-plane synchronization
Tree	synchronization
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

last-synchronization *string*

Description	Last date and time a synchronization of system files occurred
Context	platform redundancy control-plane synchronization last-synchronization *string*
Tree	last-synchronization
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

overlay

Description	Enter the overlay context Top-level container for overlay synchronization
Context	platform redundancy control-plane synchronization overlay
Tree	overlay
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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last-synchronization *string*

Description	Last date and time a synchronization of the overlay occurred
Context	platform redundancy control-plane synchronization overlay last-synchronization *string*
Tree	last-synchronization
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

next-synchronization *string*

Description	Next date and time a synchronization of the overlay will occur
Context	platform redundancy control-plane synchronization overlay next-synchronization *string*
Tree	next-synchronization
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

synchronization-frequency *number*

Description	Sets the frequency of overlay synchronizations This has no effect if overlay is not a configured synchronization mode. Changing this value results in the timer to the next synchronization being reset.
Context	platform redundancy control-plane synchronization overlay synchronization-frequency *number*
Tree	synchronization-frequency
Range	30 to 65535
Default	60
Units	seconds
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

state *keyword*

Description Current synchronization status

Context platform redundancy control-plane synchronization state *keyword*

Tree state

Options

- synchronized

  Standby control module is ready and synchronized
- synchronizing

  Standby control module is currently synchronizing
- not-ready

  Standby control module is not synchronized

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

state-reason *string*

Description One or more reasons separated by semicolons for the current synchronization state

This field is not populated when synchronized.

Context platform redundancy control-plane synchronization state-reason *string*

Tree state-reason

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

resource-management

Description Enter the resource-management context

Container for managing resources in a system-wide context

Context platform resource-management

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Tree	resource-management
Configurable	True
Platforms	Supported on all platforms

counter-banks

Description	Enter the counter-banks context Container for managing the allocation of hardware counter banks
Context	platform resource-management counter-banks
Tree	counter-banks
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-reboot-required *boolean*

Description	Reads true if the user has committed a change in the counter bank allocation configuration but has not yet saved the config and restarted the system, so previous configuration (and the associated counter bank allocation) is still in effect
Context	platform resource-management counter-banks chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex-type name *keyword*

Description	List of forwarding complex types in the system
Context	platform resource-management counter-banks forwarding-complex-type name *keyword*
Tree	forwarding-complex-type
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *keyword*

Description Counter bank sizes and scale can be different among various ASICs within the same chassis. Configuration is on per ASIC basis

Context platform resource-management counter-banks forwarding-complex-type name *keyword*

Options

- Gen2

  7250 IXR Gen 2 based forwarding complex
- Gen2c+

  7250 IXR Gen 2c+ based forwarding complex
- Gen3

  7250 IXR Gen 3 based forwarding complex
- Gen4

  7250 IXR Gen 4 based forwarding complex

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

application name *identityref*

Description Enter the application list instance

Context platform resource-management counter-banks forwarding-complex-type name *keyword* application name *identityref*

Tree application

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description Bank allocation is facilitated on per application (LSP Stats, Policer Stats, and alike) basis

Context platform resource-management counter-banks forwarding-complex-type name *keyword* application name *identityref*

Options

- fc-policers

  FC policer bank allocation which dictates FC policer scale

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- parent-policers

  Parent policer bank allocation which dictates Parent policer scale
- fc-policer-stats

  FC policer stats bank allocation which dictates FC policer stats scale
- parent-policer-stats

  Parent policer stats bank allocation which dictates parent policer stats scale
- output-class-map-stats

  Parent policer stats bank allocation which dictates parent policer stats scale
- mep-opcode-stats

  y.1731 CFM OAM MEP OpCode stats bank allocation which dictates per OpCode (under MEP) stats scale
- ingress-lsp-stats

  LSP stats bank allocation for ingress stats collection that dictates ingress LSP stats scale
- egress-lsp-stats

  LSP stats bank allocation for egress stats collection that dictates egress LSP stats scale
- ecn-stats

  Early Congestion Notification stats bank allocation which dictates ECN stats scale
- ip-in-ip-tunnel-stats

  IP-n-IP tunnel stats bank allocation which dictates IP-n-IP tunnel stats scale
- ip-tunnel-encap-stats

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank-allocation bank-id *number*

Description Add a list entry for bank-allocation

Context platform resource-management counter-banks forwarding-complex-type name *keyword* application name *identityref* bank-allocation bank-id *number*

Tree bank-allocation

Configurable True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bank-id *number*

Description	Unique identifier of the bank. Starts with 1. Some applications support allocation of multiple banks
Context	platform resource-management counter-banks forwarding-complex-type name *keyword* application name *identityref* bank-allocation bank-id *number*
Range	1 to 34
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-load-balancing

Description	Enter the dynamic-load-balancing context Container for managing the allocation of hardware resources for dynamic-load-balancing
Context	platform resource-management dynamic-load-balancing
Tree	dynamic-load-balancing
Configurable	True
Platforms	Supported on 7220 IXR-Hx platforms

chassis-reboot-required *boolean*

Description	Indicates if a chassis reboot is required to activate configuration changes in this container. Reads true if the user has committed a change in the configuration of dynamic-load-balancing but has not yet saved the config and restarted the system, so previous configuration is still in effect.
Context	platform resource-management dynamic-load-balancing chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	Supported on 7220 IXR-Hx platforms

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enable *boolean*

Description	Configures whether dynamic-load-balancing is enabled or disabled Enabled means DLB allocates ECMP resources for DLB and static ECMP NHG. Disabled means associated resources are not reserved
Context	platform resource-management dynamic-load-balancing enable *boolean*
Tree	enable
Default	true
Configurable	True
Platforms	Supported on 7220 IXR-Hx platforms

dynamic-subinterfaces

Description	Enter the dynamic-subinterfaces context Container for managing resources related to dynamic subinterfaces
Context	platform resource-management dynamic-subinterfaces
Tree	dynamic-subinterfaces
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-reboot-required *boolean*

Description	Indicates if a chassis reboot is required to activate configuration changes in this container When set to true, the system allocates resources for dynamic subinterfaces. When set to false, the system does not allocate resources for dynamic subinterfaces and uses those resources for other purposes.
Context	platform resource-management dynamic-subinterfaces chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-vlans *number*

Description Configures the allowed number of VLAN entries on the interfaces configured for dynamic subinterfaces

When set to 0, the system does not allocate resources for dynamic subinterfaces. When set to a value greater than 0, the system allocates resources for dynamic subinterfaces, including untagged traffic.

Context platform resource-management dynamic-subinterfaces max-vlans *number*

Tree max-vlans

Range 0 | 4095

Default 0

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-based-policy

Description Enter the group-based-policy context

Container for managing the allocation of hardware resources used for group-based policy

Context platform resource-management group-based-policy

Tree group-based-policy

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

chassis-reboot-required *boolean*

Description Indicates if a chassis reboot is required to activate configuration changes in this container

Reads true if the user has committed a change in the configuration of lpm-source-lookup but has not yet saved the config and restarted the system, so previous configuration is still in effect.

Context platform resource-management group-based-policy chassis-reboot-required *boolean*

Tree chassis-reboot-required

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

lpm-source-lookup *boolean*

Description	True means the datapath is operating in a mode that can find the source tag from LPM route table lookups Certain route scale numbers may be reduced when operating in this mode.
Context	platform resource-management group-based-policy lpm-source-lookup *boolean*
Tree	lpm-source-lookup
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

mac-lookup *boolean*

Description	Enables support for group-based policy on MAC-VRF network-instances When set to true, the system allocates resources for group-based policy on MAC-VRF network-instances. When set to false, the system does not allocate resources for group-based policy on MAC-VRF network-instances and uses those resources for other purposes.
Context	platform resource-management group-based-policy mac-lookup *boolean*
Tree	mac-lookup
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

ip-routes

Description	Enter the ip-routes context Resource management related to storage and compression of IPv4 and IPv6 FIB routes
Context	platform resource-management ip-routes
Tree	ip-routes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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chassis-reboot-required *boolean*

Description	Returns true if the system needs to be restarted for changes to ipv4-lem-optimization or ipv6-lem-optimization configuration to take effect
Context	platform resource-management ip-routes chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-lem-optimization *boolean*

Description	Use LEM for storage of compressed IPv4 FIB routes
Context	platform resource-management ip-routes ipv4-lem-optimization *boolean*
Tree	ipv4-lem-optimization
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-lem-optimization *boolean*

Description	Use LEM for storage of compressed IPv6 FIB routes
Context	platform resource-management ip-routes ipv6-lem-optimization *boolean*
Tree	ipv6-lem-optimization
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-pool

Description	Enter the lag-pool context Container for managing the system-wide reservation of LAG pool resources on Broadcom DNX
Context	platform resource-management lag-pool
Tree	lag-pool

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Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-reboot-required *boolean*

Description	Indicates if a chassis reboot is required to activate configuration changes in this container. Reads true if the user has committed a change in the configuration of lag-pool but has not yet saved the config and restarted the system, so previous configuration is still in effect.
Context	platform resource-management lag-pool chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

max-member-count *number*

Description	Configures the maximum allowed numbre of member links in any LAG across the system. Requires system reboot to take effect. The configured value controls the maximum allowed member links within any LAG on the system, and affects the maximum scale of LAG subinterfaces with per-subinterface queueing QoS configuration. A range of discrete values is allowed
Context	platform resource-management lag-pool max-member-count *number*
Tree	max-member-count
Range	2 | 4 | 8 | 16 | 32 | 64
Default	64
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

mdb-profile

Description	Enter the mdb-profile context Container for managing the allocation of hardware resources according to a Broadcom MDB profile
Context	platform resource-management mdb-profile
Tree	mdb-profile
Configurable	True

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-reboot-required *boolean*

Description	Reads true if the user has committed a change in the MDB profile configuration but has not yet saved the config and restarted the system, so previous configuration (and the associated MDB profile) is still in effect
Context	platform resource-management mdb-profile chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *keyword*

Description	MDB profile ID. Different MDB profiles are supported on 7250 IXR platforms with different scaling profiles to align better with scaling needs of various use-cases
Context	platform resource-management mdb-profile id *keyword*
Tree	id
Default	1
Options	• 1 The default profile for all 7250 IXR based platforms. Different profile-IDs restructures datapath tables for scaling changes. • 2 Profile for enabling secondary-default-lookup on 7250 IXR Gen 2cp based platforms • 3 Profile for hosting IP multicast (S,G) entries on 7250 IXR Gen 2cp based platforms • 4 Profile for hosting labels including push and swap entries together with labeled prefixes (e.g. BGP-LU, Prefix SID) on 7250 IXR Gen 3 based platforms • 5 Profile for higher IP-tunneled-MPLS scale on 7250 IXR Gen3 platforms

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Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam

Description	Enter the tcam context Container for managing the allocation of TCAM banks to different applications.
Context	platform resource-management tcam
Tree	tcam
Configurable	True
Platforms	Supported on all platforms

unified-forwarding-resources

Description	Enter the unified-forwarding-resources context Container for managing Broadcom-specific UFT resources.
Context	platform resource-management unified-forwarding-resources
Tree	unified-forwarding-resources
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3

allocated-extra-ip-host-entries *number*

Description	The extra number of host entries that have been allocated from UFT shared banks.
Context	platform resource-management unified-forwarding-resources allocated-extra-ip-host-entries *number*
Tree	allocated-extra-ip-host-entries
Range	0 to 262144
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

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allocated-extra-mac-entries *number*

Description The extra number of MAC address entries that have been allocated from UFT shared banks.

Context platform resource-management unified-forwarding-resources allocated-extra-mac-entries *number*

Tree allocated-extra-mac-entries

Range 0 to 262144

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

alpm *keyword*

Description Controls the ALPM mode.

If this is set to disabled then no UFT banks are allocated to ALPM. This mode is not supported by 7220 IXR-D4 or 7220 IXR-D5.

If this is set to enabled then 4 UFT shared banks are allocated to ALPM. This mode is not supported by 7220 IXR-D2 or 7220 IXR-D3.

If this is set to high-scale then 8 UFT shared banks are allocated to ALPM. This mode is not supported by 7220 IXR-D1.

Context platform resource-management unified-forwarding-resources alpm *keyword*

Tree alpm

Options

- disabled
- enabled
- high-scale

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

chassis-reboot-required *boolean*

Description Reads true if the user has committed a change to one or more of the configurable values in the uft container but has not yet saved the config and restarted the system, so the operational values are still the values initialized at the last system restart.

Context platform resource-management unified-forwarding-resources chassis-reboot-required *boolean*

Tree chassis-reboot-required

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Configurable	False
Platforms	7220 IXR-D2L, 7220 IXR-D3L

ipv6-128bit-lpm-entries *number*

Description	Sets the value for num_ipv6_lpm_128b_entries, which affects IP FIB scale. H2/H3 range: 0-1024 D1 range: 0-4096 D2/D3 range: 0-8192
Context	platform resource-management unified-forwarding-resources ipv6-128bit-lpm-entries *number*
Tree	ipv6-128bit-lpm-entries
Range	0 to 8192
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-H2, 7220 IXR-H3

requested-extra-ip-host-entries *number*

Description	The extra number of host entries that are desired. The number of UFT shared banks that are reserved for IPv4 and IPv6 host entries is given by: min(N//X,P-A) where: N = configured value of requested-extra-ip-host-entries X = the size of each shared bank, which is platform specific P-A = platform-specific number of shared banks, subtracting the ALPM banks requested-extra-ip-host-entries is interpreted in terms of IPv4 hosts (single-wide entries). IPv6 host entries are double-wide so 1 IPv4 host entry + 1 IPv6 host-entry counts as 3 entries. All UFT shared banks that are not reserved by ALPM and not reserved for extra IP host entries are used for extra MAC entries. On D1 the default value is 48K entries, which provides 3 shared banks, max is 96K. On D2/D3 the default value is 128K entries, which provides 4 shared banks, max is 256K.
Context	platform resource-management unified-forwarding-resources requested-extra-ip-host-entries *number*
Tree	requested-extra-ip-host-entries
Range	0 to 262144
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

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td4-mode *keyword*

Description Controls the UFT profile mode on TD4-based platforms

Supersedes configuration of the alpm leaf.

Context platform resource-management unified-forwarding-resources td4-mode *keyword*

Tree td4-mode

Options

- 2

  UFT mode 2

Configurable True

Platforms 7220 IXR-D4

resource-monitoring

Description Enter the resource-monitoring context

Context platform resource-monitoring

Tree resource-monitoring

Configurable True

Platforms Supported on all platforms

core

Description Enter the core context

Context platform resource-monitoring core

Tree core

Configurable True

Platforms Supported on 7250 IXR-X4

qos

Description Enter the qos context

Context platform resource-monitoring core qos

Tree qos

Configurable True

Platforms Supported on 7250 IXR-X4

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resource name *identityref*

Description	Enter the resource list instance
Context	platform resource-monitoring core qos resource name *identityref*
Tree	resource
Configurable	True
Platforms	Supported on 7250 IXR-X4

name *identityref*

Description	The name of the per-core QoS resource
Context	platform resource-monitoring core qos resource name *identityref*
Options	• voq-connector-set VoQ connector set resources allocated per core Each subinterface that has per-subinterface queuing enabled consumes one voq-connector-set on every core that hosts an interface in the subinterface's parent interface or LAG. A voq-connector-set represents the per-core hardware resource that connects a global VoQ-id to the local set of 8 queues on that core.
Configurable	True
Platforms	Supported on 7250 IXR-X4

falling-threshold-log *number*

Description	Sets the threshold that triggers the generation of a NOTICE log whenever the utilization of the per-core QoS resource in any linecard/complex/core falls reaches this value in a falling direction
Context	platform resource-monitoring core qos resource name *identityref* falling-threshold-log *number*
Tree	falling-threshold-log
Range	0 to 100
Default	70
Configurable	True
Platforms	Supported on 7250 IXR-X4

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rising-threshold-log *number*

Description	Sets the threshold that triggers the generation of a WARNING log whenever the utilization of the per-core QoS resource in any linecard/complex/core reaches this value in a rising direction
Context	platform resource-monitoring core qos resource name *identityref* rising-threshold-log *number*
Tree	rising-threshold-log
Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on 7250 IXR-X4

datapath

Description	Enter the datapath context Container for monitoring datapath resources system-wide
Context	platform resource-monitoring datapath
Tree	datapath
Configurable	True
Platforms	Supported on all platforms

asic

Description	Enter the asic context Container for monitoring datapath resources that are specific to a subset of the chipsets supported by SRLinux.
Context	platform resource-monitoring datapath asic
Tree	asic
Configurable	True
Platforms	Supported on all platforms

resource name *identityref*

Description	List of ASIC-specific datapath resources
Context	platform resource-monitoring datapath asic resource name *identityref*
Tree	resource

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Configurable True

Platforms Supported on all platforms

name *identityref*

Description The name of the ASIC-specific datapath resource.

Context platform resource-monitoring datapath asic resource name *identityref*

Options

- ip-lpm-ipv4-routes

  IPv4 longest prefix match route resources

  7220 D1/D2/D3: Reports the number of IPv4 entries in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of half-wide entries in all partitions (i.e. it assumes no IPv6 routes consume those entries). In ALPM mode, free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

  7220 D4/D5 and 7220 H2/H3/H4: Reports the number of IPv4 routes installed in the FIB. Free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-routes

  IPv6 longest prefix match route resources

  Reports the number of IPv6 routes installed in the FIB. Free entries is the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-shorter-routes

  IPv6 longest prefix match route resources when the prefix length is less than or equal to 64

  7220 D1/D2/D3: Reports the number of IPv6 entries with prefix length less than 65 bits in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of single-wide + double-wide entries (i.e. it assumes no other types of routes consume those entries). In ALPM mode, free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

  7220 H2/H3: Reports the number of IPv6 entries with prefix length less than 65 bits installed in the FIB. Free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

- ip-lpm-ipv6-longer-routes

  IPv6 longest prefix match route resources when the prefix length is greater than 64

  7220 D1/D2/D3: Reports the number of IPv6 entries with prefix length greater than 64 bits in the hardware LPM table. In non-ALPM mode, free entries is the remaining number of double-wide entries (i.e. it assumes no other types of routes consume those entries). In ALPM mode, free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

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7220 H2/H3: Reports the number of IPv6 entries with prefix length greater than 64 bits installed in the FIB. Free entries is based on the Minimum Guaranteed Capacity returned by the BCM SDK.

- exact-match-entries

  Exact match lookup table resources

  Counts 30-bit entries. On 7250 IXR Gen3 systems, this captures total usage across both the main and secondary table.

- exact-match-entries-1

  Exact match lookup table resources, main table

  Counts 30-bit entries

- exact-match-entries-2

  Exact match lookup table resources, secondary table

  Counts 30-bit entries

- exact-match-entries-mac-da

  Exact match lookup table resources used for MAC destination address FDB lookup

  Counts 30-bit entries

- exact-match-entries-mac-sa

  Exact match lookup table resources used for MAC source address FDB lookup

  Counts 30-bit entries

- exact-match-entries-mpls-label

  Exact match lookup table resources used for MPLS incoming label lookup

  Counts 30-bit entries

- exact-match-entries-ipv4-route

  Exact match lookup table resources used for IPv4 compressed route lookup

  Counts 30-bit entries

- exact-match-entries-ipv6-route

  Exact match lookup table resources used for IPv6 compressed route lookup

  Counts 30-bit entries

- exact-match-entries-next-hop

  Exact match lookup table resources used for compressed route next-hop lookup

  Counts 30-bit entries

- ip-tunnel-source-ipv4-addresses

  IP tunnel source IPv4 address resources

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Each IPinIP and GRE tunnel with a different source IPv4 address uses one of these resources.

- ip-tunnel-source-ipv6-addresses

  IP tunnel source IPv6 address resources

  Each IPinIP and GRE tunnel with a different source IPv6 address uses one of these resources.

- underlay-ecmp-groups

  Underlay ECMP group resources

  ECMP groups are partitioned into overlay and underlay groups. The underlay partition is further subdivided into groups used for underlay ECMP and groups used for VP LAGs (EVPN M-H - if supported). This counts the utilization of the sub-resource used for ECMP.

- dynamic-load-balancing-ecmp-groups

  Dynamic load-balancing ECMP groups

  A DLB ECMP group can support per-packet load-balancing or it can support assignment of flows to ECMP members based on interface load metrics

- vp-lag-groups

  VP LAG group resources

  ECMP groups are partitioned into overlay and underlay groups. The underlay partition is further subdivided into groups used for underlay ECMP and groups used for VP LAGs (EVPN M-H). This counts the utilization of the sub-resource used for VP LAGs.

- overlay-ecmp-groups

  Overlay ECMP group resources

  ECMP groups are partitioned into overlay and underlay groups. This counts the utilization of the overlay ECMP partition.

- underlay-ecmp-members

  Underlay ECMP member resources

  ECMP members are partitioned into overlay and underlay. This counts the utilization of the partition used for underlay.

- overlay-ecmp-members

  Overlay ECMP member resources

  ECMP members are partitioned into overlay and underlay. This counts the utilization of the partition used for overlay.

- underlay-egress-next-hops

  Underlay egress next-hop resources

  Egress next-hops are partitioned into overlay and underlay. This counts the utilization of the partition used for underlay.

- overlay-egress-next-hops

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Overlay egress next-hop resources

Egress next-hops are partitioned into overlay and underlay. This counts the utilization of the partition used for overlay.

- dgpp-module-ids

  DGPP module ID resources

  DGPPs are an aggregate id consisting of a module_id and a port_id. There are 64 modules and 120 ports per module. Each 'network' ARP entry (IP next-hop) needs a DGPP - the module_id is allocated against the network interface (port) and a port_id is allocated from within the module. A module_id will only be allocated when the first ArpEntry is added (freed when last is removed) but is owned exclusively by that network interface. A network interface may require more than one module_id - i.e. if there are 245 ArpEntries on ethernet-1/1 (possibly spread across multiple network-instance interfaces) then 3 module_ids are required.

- egress-vlan-translate-egress-vnis

  EGR_VLAN_XLATE_1 resources

  Corresponds to the 'EGR_VLAN_XLATE_1' HW table (8K entries on Dx). These entries are used for finding the egress VNI to be used for VXLAN packets.

- egress-vlan-translate-local-bias-pairs

  EGR_VLAN_XLATE_2 resources

  Corresponds to the 'EGR_VLAN_XLATE_2' HW table (24K entries). These entries are used for local bias (ES pruning).

- level-1-ecmp-groups

  Level 1 (top level) ECMP group resources.

- level-2-ecmp-groups

  Level 2 (middle level) ECMP group resources.

- level-3-ecmp-groups

  Level 3 (bottom level) ECMP group resources.

- level-1-ecmp-members

  Level 1 (top level) ECMP member resources.

- level-2-ecmp-members

  Level 2 (middle level) ECMP member resources.

- level-3-ecmp-members

  Level 3 (bottom level) ECMP member resources.

- level-1-non-ecmp-fecs

  Level 1 (top level) non-ECMP FEC resources.

- level-2-non-ecmp-fecs

  Level 2 (middle level) non-ECMP FEC resources.

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- level-3-non-ecmp-fecs

  Level 3 (bottom level) non-ECMP FEC resources.

- ip-tunnel-statistics

  Statistics resources for counting packets matching an IP tunnel entry

  One resource is one packet/octet counter pair that is allocated to counting: (a) packets that match an IP tunnel termination entry for purposes of per-prefix transit traffic statistics (b) packets that match IP tunnel termination entries programmed to decapsulate and redirect traffic to another network-instance (c) packets that match IP tunnel termination entries programmed to decapsulate and re-tunnel traffic to a new endpoint address (1 counter pair per new endpoint address)

- subinterface-basic-stats-counters

  Stats resources used by bridged and routed (non-IRB) subinterfaces that do not provide a breakdown by protocol family

- subinterface-detailed-stats-counters

  Stats resources used by routed (non-IRB) subinterfaces that provide a breakdown by protocol family

- subinterface-irb-stats-counters

  Stats resources used by routed IRB subinterfaces

- kaps-public

  The public KAPS hardware table

- kaps-private

  The private KAPS hardware table

- phase-2-type-1-eedb-entries

  Phase-2 (EEDB) Egress Encapsulation resources

  Required by various applications such as EVPN BUM label and sflow

- phase-2-type-2-eedb-entries

  Phase-2 (EEDB) Egress Encapsulation resources

  Required by various applications such as EVPN Unicast label, IP-VPN/ IFL label, IRB ARP entries and vlan loopbacks

- phase-3-type-1-eedb-entries

  Phase-3 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS and sflow. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-3-type-2-eedb-entries

  Phase-3 (EEDB) Egress Encapsulation resources

  Required by various applications such as BGP Labeled Unicast and IP-in-IP tunnels

- phase-4-type-1-eedb-entries

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Phase-4 (EEDB) Egress Encapsulation resources

Required by various applications such as MPLS, GREv4 and GREv6 tunnels, sflow for UDP tunnels. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-4-type-2-eedb-entries

  Phase-4 (EEDB) Egress Encapsulation resources

  Required by various applications such as TE-Policy extended label stack, three or more labels. Requires phase-3 type-1 bank for first and second label. On IXR Gen 3, can push multiple labels starting with TE-Policy label position 3

- phase-5-type-1-eedb-entries

  Phase-5 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS and GREv6 tunnels. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-6-type-1-eedb-entries

  Phase-6 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS tunnels and ti-LFA. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- phase-7-type-1-eedb-entries

  Phase-7 (EEDB) Egress Encapsulation resources

  Required by various applications such as MPLS tunnels including LDP and SR-ISIS. When used by SR/MPLS, one resource is used at every stage while pushing tunnel labels. Up to two labels can be referenced via a single EEDB entry.

- type-1-esem-entries

  Type-1 (ESEM) Egress Exact Match resources

  Required by various applications such as Egress VNIs for VXLAN tunnels

- type-2-esem-entries

  Type-2 (ESEM) Egress Exact Match resources

  Required by various applications such as EVPN-MPLS Multi-Homing ESI label forwarding to ES peers

- es-prune-entries

  Ethernet Segment Prune resources

  Required by various applications, including EVPN-MPLS and EVPN-VXLAN Multi-Homing, to enforce split-horizon filtering at the egress Ethernet Segment interface. For EVPN-MPLS Multi-Homing, one entry is maintained per Ethernet Segment interface. For EVPN-VXLAN Multi-

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Homing, one entry is maintained per Ethernet Segment interface and remote peer that shares the same Ethernet Segment with the system.

Configurable True

Platforms Supported on all platforms

upper-threshold-clear *number*

Description Sets the threshold that triggers the generation of a NOTICE log and the setting of 'used-upper-threshold-exceeded' to 'false' whenever the utilization of the datapath resource in any linecard (if applicable) or forwarding complex or pipeline (if applicable) reaches this value in a falling direction

Context platform resource-monitoring datapath asic resource name *identityref* upper-threshold-clear *number*

Tree upper-threshold-clear

Range 0 to 100

Default 70

Configurable True

Platforms Supported on all platforms

upper-threshold-set *number*

Description Sets the threshold that triggers the generation of a WARNING log and the setting of 'used-upper-threshold-exceeded' to 'true' whenever the utilization of the datapath resource in any linecard (if applicable) or forwarding complex or pipeline (if applicable) reaches this value in a rising direction

Context platform resource-monitoring datapath asic resource name *identityref* upper-threshold-set *number*

Tree upper-threshold-set

Range 0 to 100

Default 90

Configurable True

Platforms Supported on all platforms

xdp

Description Enter the xdp context

Container for monitoring datapath resources that are generic in concept.

Context platform resource-monitoring datapath xdp

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Tree	xdp
Configurable	True
Platforms	Supported on all platforms

resource name *identityref*

Description	List of generic datapath resources
Context	platform resource-monitoring datapath xdp resource name *identityref*
Tree	resource
Configurable	True
Platforms	Supported on all platforms

name *identityref*

Description

The name of the XDP datapath resource.

Some of these resources may be software only (i.e. no correspondence to a hardware table).

Some of these resources may depend on multiple HW tables and when the utilization is reported it represents an aggregated or summarized view.

Context platform resource-monitoring datapath xdp resource name *identityref*

Options

- arp-nd-entries

  IPv4 ARP and IPv6 neighbor discovery resources

  Each IPv4 ARP and each IPv6 neighbor entry counts as 1 used resource against a total that is platform dependent.

- ip-hosts

  IP host route resources

  7215 IXS-A1: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

  7220 D1/D2/D3: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every IPv4 multicast snoop entry requires 2 entries. In non-ALPM operation every remote /32 route also requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every IPv6 multicast snoop entry requires 4 entries. In non-ALPM operation every remote /128 route also requires 2 entries. Free entries reflects the total number of entries remaining in shared + dedicated UFT banks.

  7220 D4/D5: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address

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requires 1 entry. Every local host /128 route, and ND entry requires 2 entries. Every (*, G) IPv4 multicast snoop entry requires 1 entry. Every (S, G) IPv4 multicast snoop entry requires 2 entries. Every (*, G) IPv6 multicast snoop entry requires 2 entries. Every (S, G) IPv6 multicast snoop entry requires 4 entries.

7220 H2/H3/H4/H5/H6: Reports the number of entries used in the IP host table. Every local host /32 route, ARP entry and IPv4 subnet broadcast address requires 1 entry. Every local host /128 route, and ND entry requires 2 entries.

- ip-lpm-routes

  IP longest prefix match route resources

  7250 IXR/IXRe: Every installed IPv4 and IPv6 route counts as one used route.

  7220 D1/D2/D3: In ALPM-disabled mode: Reports the number of half-wide entries. An IPv4 route requires a half-wide entry. An IPv6 route that is /64 or less requires a single-wide entry (2 half-wide entries). An IPv6 route that is more than /64 requires a double-wide entry (4 half-wide entries). In ALPM mode: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 2 used routes.

  7220 D4/D5: Every IPv4 route counts as 1 used route and every IPv6 route (regardless of prefix length) counts as 4 used routes.

- mac-addresses

  MAC lookup table resources

  Reports the number of entries used in the MAC lookup table. On 7220 D1/D2/D3/D4/D5, free entries reflects the total number of entries remaining in shared + dedicated UFT banks

- mac-next-hops

  Direct MAC next-hop resources

  A resource that is consumed by each next-hop of a gRIBI route or an EVPN IFF unnumbered route, where the next-hop is specified as an interface name combined with a MAC address

- direct-ip-next-hops

  Direct IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route or MPLS route/tunnel that is resolved directly to a local interface.

- indirect-ip-next-hops

  Indirect IP next-hop resources

  Reports the number of entries, where 1 entry is used for every next-hop of an IP route that requires resolution by a non-local route. This does not consider underlying ASIC resources.

- multicast-route

  multicast route resources

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7250 X3b/X1b/IXR/IXRe: Reports the number of entries used in the multicast route table.

- tunnel-next-hops

  Tunnel next-hop resources

  Reports the number of tunnel next-hop entries. 1 tunnel next-hop is required every time an indirect next-hop (e.g. a BGP next-hop) is resolved by a tunnel (BGP-LU, LDP, SR-ISIS or VXLAN)

- ecmp-groups

  ECMP group resources

  7250 IXR/IXRe: Reports the used number of ECMP FECs, adding L1 ECMP FECs, L2 ECMP FECs and L3 ECMP FECs.

  7220 D1/D2/D3/D4/D5: Reports the used number of ECMP groups, adding overlay and underlay ECMP groups (if applicable).

  7220 H2/H3/H4: Reports used number of ECMP groups.

- ecmp-members

  ECMP member resources

  7250 IXR/IXRe: Reports the used number of ECMP member FECs, adding L1 ECMP member FECs, L2 ECMP member FECs and L3 ECMP member FECs.

  7220 D1/D2/D3/D4/D5: Reports the used number of ECMP members, adding overlay and underlay ECMP members (if applicable).

  7220 H2/H3/H4: Reports used number of ECMP members.

- egress-next-hops

  Egress next-hop resources

  7215 IXS-A1: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 D2/D3/D4/D5: Reports the number of entries used in the egress next-hop table, counting entries in the overlay partition and entries in the underlay partition. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

  7220 H2/H3/H4/H5/H6: Reports the number of entries used in the egress next-hop table. 1 entry = 1 IPv4 next-hop address or 1 IPv6 next-hop address.

- lag-groups

  LAG group resources

  Reports the number of LAG resources used, including DGPP LAGs.

- lag-members

  LAG member resources

  Reports the number of LAG member resources used, including DGPP LAG members.

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- subinterfaces

  Subinterface resources

  There are a maximum of 127 subinterfaces per TH3 pipeline (limited by VFP/EFP TCAM resources). This counts the utilization of those resources.

- mpls-next-hops

  MPLS next-hop (NHLFE) resources

  One resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an ILM entry that performs a 'swap'. One additional resource is used for every next-hop that pushes an MPLS label in every next-hop-group that is tied to an MPLS tunnel.

- mpls-incoming-labels

  MPLS label lookup (ILM) resources

  One resource is used for every MPLS ILM entry that performs either a 'swap' or a 'pop' operation.

- originating-tunnels

  Originating tunnel resources

  One resource is used for every VXLAN, LDP, SR-ISIS or IPinIP tunnel originating on this node as head-end. On TD and TD4 systems this equates to a DVP resource.

- terminating-tunnels

  Terminating tunnel resources

  One resource is used for every IPinIP tunnel terminating entry on this node.

Configurable True

Platforms Supported on all platforms

upper-threshold-clear *number*

Description Sets the threshold that triggers the generation of a NOTICE log and the setting of 'used-upper-threshold-exceeded' to 'false' whenever the utilization of the datapath resource in any linecard (if applicable) or forwarding complex or pipeline (if applicable) reaches this value in a falling direction

Context platform resource-monitoring datapath xdp resource name *identityref* upper-threshold-clear *number*

Tree upper-threshold-clear

Range 0 to 100

Default 70

Configurable True

Platforms Supported on all platforms

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upper-threshold-set *number*

Description	Sets the threshold that triggers the generation of a WARNING log and the setting of 'used-upper-threshold-exceeded' to 'true' whenever the utilization of the datapath resource in any linecard (if applicable) or forwarding complex or pipeline (if applicable) reaches this value in a rising direction
Context	platform resource-monitoring datapath xdp resource name *identityref* upper-threshold-set *number*
Tree	upper-threshold-set
Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on all platforms

disk

Description	Enter the disk context Container for monitoring disk resources
Context	platform resource-monitoring disk
Tree	disk
Configurable	True
Platforms	Supported on all platforms

partition

Description	Enter the partition context Container for monitoring partition resources
Context	platform resource-monitoring disk partition
Tree	partition
Configurable	True
Platforms	Supported on all platforms

resource name *identityref*

Description	Enter the resource list instance
Context	platform resource-monitoring disk partition resource name *identityref*
Tree	resource

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Configurable	True
Platforms	Supported on all platforms

name *identityref*

Description	List of disk partition resources
Context	platform resource-monitoring disk partition resource name *identityref*
Options	• percent-used Percentage of the partition in use
Configurable	True
Platforms	Supported on all platforms

falling-threshold-log *number*

Description	Sets the threshold that triggers the generation of a NOTICE log whenever the utilization of the disk partition reaches this value in a falling direction
Context	platform resource-monitoring disk partition resource name *identityref* falling-threshold-log *number*
Tree	falling-threshold-log
Range	0 to 100
Default	70
Configurable	True
Platforms	Supported on all platforms

rising-threshold-log *number*

Description	Sets the threshold that triggers the generation of a WARNING log whenever the utilization of the disk partition reaches this value in a rising direction
Context	platform resource-monitoring disk partition resource name *identityref* rising-threshold-log *number*
Tree	rising-threshold-log
Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on all platforms

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mtu

Description Enter the mtu context

Context platform resource-monitoring mtu

Tree mtu

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description Enter the resource list instance

Context platform resource-monitoring mtu resource name *identityref*

Tree resource

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the MTU resource

Context platform resource-monitoring mtu resource name *identityref*

Options

- ip-mtu

  IP MTU resource pool. One resource from this pool is consumed by every different IP MTU value used by the subinterfaces on the linecard forwarding-complex.

- port-mtu

  Port MTU resource pool. One resource from this pool is consumed by every different port MTU value used by a port on the linecard forwarding-complex.

- mpls-mtu

  MPLS MTU resource pool. One resource from this pool is consumed by every different MPLS MTU value used by the subinterfaces on the linecard forwarding-complex.

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

falling-threshold-log *number*

Description	Sets the threshold that triggers the generation of a NOTICE log whenever the utilization of the MTU resource in any linecard/complex/core reaches this value in a falling direction and this is the first trigger since the last rising-threshold-log was triggered.
Context	platform resource-monitoring mtu resource name *identityref* falling-threshold-log *number*
Tree	falling-threshold-log
Range	0 to 100
Default	70
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rising-threshold-log *number*

Description	Sets the threshold that triggers the generation of a WARNING log whenever the utilization of the MTU resource in any linecard/complex/core reaches this value in a rising direction and this is the first trigger since the last restart or since the last falling-threshold-log was triggered.
Context	platform resource-monitoring mtu resource name *identityref* rising-threshold-log *number*
Tree	rising-threshold-log
Range	0 to 100
Default	90
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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qos

Description Enter the qos context

Context platform resource-monitoring qos

Tree qos

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description Enter the resource list instance

Context platform resource-monitoring qos resource name *identityref*

Tree resource

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the QoS resource

Context platform resource-monitoring qos resource name *identityref*

Options

- classifier-profiles

  A classifier-profile resource is used every time a different combination of IPv4 DSCP classifier and IPv6 DSCP classifier is applied to an ingress subinterface. One is always used by the combination of the default IPv4 DSCP classifier and the default IPv6 DSCP classifier.

- rewrite-profiles

  A rewrite-profile resource is used every time a different combination of IPv4 DSCP rewrite-rule and IPv6 DSCP rewrite-rule is applied to an egress subinterface.

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- dscp-classifier-policies

  Every user-defined DSCP classifier policy that is configured uses one of these resources

- dscp-mpls-rewrite-policies

  A rewrite-policy resource is used every time a different DSCP or MPLS traffic-class rewrite-rule policy is applied to an egress subinterface.

- mpls-classifier-policies

  Every user-defined mpls traffic class classifier policy that is configured uses one of these resources

- mpls-rewrite-policies

  An mpls-rewrite-policy resource is used every time a different MPLS traffic-class rewrite-rule policy is applied to at least one egress subinterface on this forwarding-complex.

- dscp-rewrite-policies

  Every user-defined dscp rewrite policy that is configured uses one of these resources.

- dot1p-classifier-policies

  Every user-defined dot1p classifier policy that is configured uses one of these resources

- dot1p-rewrite-policies

  Every user-defined dot1p rewrite policy that is configured uses one of these resources

- input-policers

  Every input-policer that is allocated to the configured subinterfaces based on input-class-map

- output-class-maps

  Every output class map that is applied to at least one egress subinterface on this forwarding-complex, uses one of these resources.

- slope-policies

  Every user-defined qos buffer management slope policy that is configured uses one of these resources

- input-class-maps

  Every qos input class map that is applied to at least one qos subinterface input on this forwarding-complex, uses one of these resources.

- dscp-reclassify-policies

  Every user-defined dscp reclassify policy that is configured uses one of these resources

- ip-rewrite-policies

  Every user-defined ip rewrite policy that is configured uses one of these resources

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

falling-threshold-log *number*

Description	Sets the threshold that triggers the generation of a NOTICE log whenever the utilization of the QoS resource in any linecard/complex/core falls reaches this value in a falling direction
Context	platform resource-monitoring qos resource name *identityref* falling-threshold-log *number*
Tree	falling-threshold-log
Range	0 to 100
Default	70
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rising-threshold-log *number*

Description	Sets the threshold that triggers the generation of a WARNING log whenever the utilization of the QoS resource in any linecard/complex/core reaches this value in a rising direction
Context	platform resource-monitoring qos resource name *identityref* rising-threshold-log *number*
Tree	rising-threshold-log
Range	0 to 100
Default	90
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam

Description Enter the tcam context

Context platform resource-monitoring tcam

Tree tcam

Configurable True

Platforms Supported on all platforms

resource name *identityref*

Description Enter the resource list instance

Context platform resource-monitoring tcam resource name *identityref*

Tree resource

Configurable True

Platforms Supported on all platforms

name *identityref*

Description The name of the TCAM resource

Context platform resource-monitoring tcam resource name *identityref*

Options

- match-action-ipv4

  Resource pool of TCAM entries used by match-action policies with IPv4 rules
- match-action-ipv6

  Resource pool of TCAM entries used by match-action policies with IPv6 rules
- if-input-ipv4

  Resource pool of TCAM entries used by IPv4 ACLs applied as subinterface-input filters
- if-input-ipv4-mac

  Resource pool of TCAM entries used by IPv4 and MAC ACLs applied as subinterface-input filters
- if-output-ipv4

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Resource pool of TCAM entries used by IPv4 ACLs applied as subinterface-output filters

- if-input-ipv6

  Resource pool of TCAM entries used by IPv6 ACLs applied as subinterface-input filters

- if-output-ipv6

  Resource pool of TCAM entries used by IPv6 ACLs applied as subinterface-output filters

- cpm-capture-ipv4

  Resource pool of TCAM entries used by IPv4 cpm-filter ACLs and capture-filter ACLs

- cpm-capture-ipv6

  Resource pool of TCAM entries used by IPv6 cpm-filter ACLs and capture-filter ACLs

- system-capture-ipv4

  Resource pool of TCAM entries used by IPv4 capture-filter ACLs and IPv4 system-filter ACLs

- system-capture-ipv6

  Resource pool of TCAM entries used by IPv6 capture-filter ACLs and IPv6 system-filter ACLs

- system-capture

  Resource pool of TCAM entries used by IPv4 + IPv6 capture-filter ACLs and system-filter ACLs

- capture-ipv4

  Resource pool of TCAM entries used by IPv4 capture-filter ACLs

- capture-ipv6

  Resource pool of TCAM entries used by IPv6 capture-filter ACLs

- if-output-cpm-ipv4

  Resource pool of TCAM entries used by IPv4 egress ACLs and cpm-filter ACLs

- if-output-cpm-ipv4-mac

  Resource pool of TCAM entries used by IPv4 and MAC egress ACLs and cpm-filter ACLs

- if-output-cpm-ipv6

  Resource pool of TCAM entries used by IPv6 egress ACLs and cpm-filter ACLs

- if-output-cpm

  Resource pool of TCAM entries used by IPv4 + IPv6 egress ACLs and cpm-filter ACLs

- if-input-mac

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Resource pool of TCAM entries used by MAC ACLs applied as subinterface-input filters

- if-output-mac

  Resource pool of TCAM entries used by MAC egress ACLs

- if-output-cpm-mac

  Resource pool of TCAM entries used by MAC egress ACLs and MAC cpm-filter ACLs

- policy-forwarding-vrf-selection-ipv4

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a different network-instance

- policy-forwarding-vrf-selection-ipv6

  Resource pool of TCAM entries used by IPv6 policy-forwarding entries that redirect flows to a different network-instance

- policy-forwarding-vrf-selection-ipv4-and-gre-udp-decap

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a different network-instance and IPv4/IPv6 global-decap policy rules that perform GRE, MPLSoUDP and IPoGUE decapsulation

- policy-forwarding-nhg-ipv4

  Resource pool of TCAM entries used by IPv4 policy-forwarding entries that redirect flows to a NHG of IP next-hops or tunnels

  On TD4 systems IPv6 policy-forwarding entries share this resource with IPv4 entries.

- policy-forwarding-nhg-ipv6

  Resource pool of TCAM entries used by IPv6 policy-forwarding entries that redirect flows to a NHG of IP next-hops or tunnels

- policy-forwarding-selective-load-balancing

  Resource pool of TCAM entries used by the selective-DLB match that enables/disables dynamic-load-balancing for a subset of traffic

- if-input-policer

  Resource pool of TCAM entries used by ingress subinterface policer templates

- if-input-ipv4-qos

  Resource pool of TCAM entries associated with IPv4 multi-field QoS classification entries, when applied to subinterface input

- if-input-ipv6-qos

  Resource pool of TCAM entries associated with IPv6 multi-field QoS classification entries, when applied to subinterface input

- mrouter-mfib-redirect

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Resource pool of TCAM entries used by multicast snooping protocols in MAC-VRF network-instances

One TCAM entry is used per multicast snooping protocol enabled in a MAC-VRF. For instance, if igmp-snooping and mld-snooping are enabled on a MAC-VRF, two entries are used. If only igmp-snooping is enabled, only one entry is used.

- tunnel-decap-ipv4-ipv6

  Resource pool of TCAM entries used for IPv4 and IPv6 tunnel-decapsulation groups

  Only applicable to Gen2c+

- if-output-evpn-mh-multicast-non-df

  Resource pool of TCAM entries used by egress filtering of IP multicast traffic to non-Designated Forwarder subinterfaces

  One TCAM entry is used when multicast snooping protocols are enabled on at least one MAC-VRF that has one or more subinterfaces associated with Ethernet Segments.

- dot1x-multi-host-authentication-guard

  Resource pool of TCAM entries used for dot1x multi host authentication

  This is used for any protocol that uses multi host including dot1x or MBA.

- input-first-hop-security-ip-source-guard

  Resource pool of TCAM entries used for IP source guard.

- input-first-hop-security-ipv4-source-guard

  Resource pool of TCAM entries used for IPv4 source guard entries.

- input-first-hop-security-ipv6-source-guard

  Resource pool of TCAM entries used for IPv6 source guard entries.

- gbp-ingress

  Resource pool of TCAM entries used for Group Based Policy entries.

- combined-ecmp-redirect

  Resource pool of TCAM entries used for combined ECMP and gateway-IP load balancing with data path egress filtering

  One TCAM entry is used per NHG for combined ECMP and gateway-IP load balancing with data path egress filtering. The TCAM entry is used to override the ECMP group ID obtained from route lookup with an alternate ECMP group containing only access next hops.

Configurable True

Platforms Supported on all platforms

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falling-threshold-log *number*

Description	Sets the threshold that triggers the generation of a NOTICE log whenever the utilization of the TCAM resource in any linecard/complex/core falls reaches this value in a falling direction. On platforms that support dynamic TCAM the utilization considers both free-dynamic and free-static.
Context	platform resource-monitoring tcam resource name *identityref* falling-threshold-log *number*
Tree	falling-threshold-log
Range	0 to 100
Default	70
Configurable	True
Platforms	Supported on all platforms

rising-threshold-log *number*

Description	Sets the threshold that triggers the generation of a WARNING log whenever the utilization of the TCAM resource in any linecard/complex/core reaches this value in a rising direction On platforms that support dynamic TCAM the utilization considers both free-dynamic and free-static.
Context	platform resource-monitoring tcam resource name *identityref* rising-threshold-log *number*
Tree	rising-threshold-log
Range	0 to 100
Default	90
Configurable	True
Platforms	Supported on all platforms

trust

Description	Enter the trust context State information related to Platform Trust
Context	platform trust
Tree	trust
Configurable	False

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Platforms	Supported on all platforms

attestation

Description	Enter the attestation context Action for attestation to retrieve TCG BIOS Logs, IMA Logs
Context	platform trust attestation
Tree	attestation
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description	Operational commands related to log retrieval for control modules
Context	platform trust attestation control slot *string*
Tree	control
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *string*

Description	Slot identifier for the control module
Context	platform trust attestation control slot *string*
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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log-retrieval

Description Enter the log-retrieval context

Actions to retrieve BIOS and IMA Log

Context platform trust attestation control slot *string* log-retrieval

Tree log-retrieval

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disk-encryption

Description Enter the disk-encryption context

State and operational commands related to Disk Encryption

Context platform trust disk-encryption

Tree disk-encryption

Configurable False

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description Disk Encryption for control modules

Context platform trust disk-encryption control slot *string*

Tree control

Configurable False

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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slot *string*

Description Slot identifier for the control module

Context platform trust disk-encryption control slot *string*

Configurable False

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

secure-boot

Description Enter the secure-boot context

State information related to Secure Boot

Context platform trust secure-boot

Tree secure-boot

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description Secure Boot states related to control modules

Context platform trust secure-boot control slot *string*

Tree control

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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slot *string*

Description Slot identifier for the control module

Context platform trust secure-boot control slot *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Secure Boot operational state

Context platform trust secure-boot control slot *string* oper-state *keyword*

Tree oper-state

Options

- up

  Secure Boot is enabled
- down

  Secure Boot is disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

root-of-trust *keyword*

Description Root of Trust for Secure Boot execution

Context platform trust secure-boot control slot *string* root-of-trust *keyword*

Tree root-of-trust

Options

- firmware

  Firmware Root of Trust
- hardware

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Hardware Root of Trust

Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

uefi-variables variable *string*

Description	Content of the UEFI Secure Boot variables programmed in the control module
Context	platform trust secure-boot control slot *string* uefi-variables variable *string*
Tree	uefi-variables
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

variable *string*

Description	UEFI Secure Boot database variable name
Context	platform trust secure-boot control slot *string* uefi-variables variable *string*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

contents

Description	Enter the contents context

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Content Secure Boot database variable

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents

Tree contents

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

certificate index *number*

Description List of X.509 certificates

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents certificate index *number*

Tree certificate

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description The index of the certificate

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents certificate index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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data *binary*

Description DER encoded X.509 certificate

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents certificate index *number* data *binary*

Tree data

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sha1-hash index *number*

Description List of SHA-1 hash digests

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha1-hash index *number*

Tree sha1-hash

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description The index of the hash

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha1-hash index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-

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gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

digest-value *binary*

Description SHA-1 digest

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha1-hash index *number* digest-value *binary*

Tree digest-value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sha256-hash index *number*

Description List of SHA-256 hash digests

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash index *number*

Tree sha256-hash

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description The index of the hash

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash index *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

digest-value *binary*

Description SHA-256 digest

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash index *number* digest-value *binary*

Tree digest-value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sha256-hash-cert index *number*

Description List of SHA-256 hash digests of X.509 certificates

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash-cert index *number*

Tree sha256-hash-cert

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description The index of the hash

Context platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash-cert index *number*

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

digest-value *binary*

Description	SHA-256 digest of an X.509 certificate
Context	platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash-cert index *number* digest-value *binary*
Tree	digest-value
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revocation-time *string*

Description	Certificate revocation start time
Context	platform trust secure-boot control slot *string* uefi-variables variable *string* contents sha256-hash-cert index *number* revocation-time *string*
Tree	revocation-time
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

uefi-variables-update

Description	Enter the uefi-variables-update context

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Update status of the UEFI Secure Boot variables PK, KEK, DB and DBx programmed in the control module compared to the UEFI variables update in the modification dataset

Context platform trust secure-boot control slot *string* uefi-variables-update

Tree uefi-variables-update

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

db-update-required *boolean*

Description The authorized database (db) update status compared to the modification dataset true = the authorized database (db) is not up to date, update required false = the authorized database (db) is up to date

Context platform trust secure-boot control slot *string* uefi-variables-update db-update-required *boolean*

Tree db-update-required

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dbx-update-required *boolean*

Description The forbidden database (dbx) update status compared to the modification dataset true = the forbidden database (dbx) is not up to date, update required false = the forbidden database (dbx) is up to date

Context platform trust secure-boot control slot *string* uefi-variables-update dbx-update-required *boolean*

Tree dbx-update-required

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D,

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7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

kek-update-required *boolean*

Description The Key Exchange Key database (KEK) update status compared to the modification dataset true = the Key Exchange Key database (KEK) is not up to date, update required false = the Key Exchange Key database (KEK) is up to date

Context platform trust secure-boot control slot *string* uefi-variables-update kek-update-required *boolean*

Tree kek-update-required

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modification-dataset-db-conflict *boolean*

Description The authorized database (db) conflict status between the modification dataset and the current running image true = conflict false = no conflict

Context platform trust secure-boot control slot *string* uefi-variables-update modification-dataset-db-conflict *boolean*

Tree modification-dataset-db-conflict

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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modification-dataset-dbx-conflict *boolean*

Description	The forbidden database (dbx) conflict status between the modification dataset and the current running image true = conflict false = no conflict
Context	platform trust secure-boot control slot *string* uefi-variables-update modification-dataset-dbx-conflict *boolean*
Tree	modification-dataset-dbx-conflict
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modification-dataset-digest *binary*

Description	The SHA256 digest of the modification dataset file
Context	platform trust secure-boot control slot *string* uefi-variables-update modification-dataset-digest *binary*
Tree	modification-dataset-digest
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modification-dataset-present *boolean*

Description	The modification dataset is present
Context	platform trust secure-boot control slot *string* uefi-variables-update modification-dataset-present *boolean*
Tree	modification-dataset-present
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

modification-dataset-valid *boolean*

Description The status of the modification dataset true = the modification dataset is valid false = the modification dataset is invalid

Context platform trust secure-boot control slot *string* uefi-variables-update modification-dataset-valid *boolean*

Tree modification-dataset-valid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pk-update-required *boolean*

Description The Platform Key (PK) update status compared to the modification dataset true = the Platform Key is not up to date, update required false = the Platform Key is up to date

Context platform trust secure-boot control slot *string* uefi-variables-update pk-update-required *boolean*

Tree pk-update-required

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

up-to-date *boolean*

Description Status of the Secure Boot variables programmed in the control module compared to the current modification dataset true = UEFI variables are up to date false = UEFI variable update required

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Context	platform trust secure-boot control slot *string* uefi-variables-update up-to-date *boolean*
Tree	up-to-date
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tpm

Description	Enter the tpm context
Context	platform trust tpm
Tree	tpm
Configurable	False
Platforms	Supported on all platforms

control slot *string*

Description	TPM status, PCR indexes and certificates per control module
Context	platform trust tpm control slot *string*
Tree	control
Configurable	False
Platforms	Supported on all platforms

slot *string*

Description	Slot identifier for the control module. The slot identifier is the system wide unique name for the module's TPM
Context	platform trust tpm control slot *string*
Configurable	False
Platforms	Supported on all platforms

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certificates name *string*

Description	List of TPM certificates Three main types of certificates can be accessed via this statement, including Endorsement Key Certificate (EK), Attestation Key Certificate (AK), Device ID key Certificate (DevID)
Context	platform trust tpm control slot *string* certificates name *string*
Tree	certificates
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	An arbitrary name uniquely identifying a certificate associated to a key within a TPM Endorsement Key Certificate (EK): endorsement-certificate Initial Device ID Certificate (IDevID): initial-device-id-certificate Initial Attestation Key Certificate (IAK): initial-attestation-certificate
Context	platform trust tpm control slot *string* certificates name *string*
Configurable	False
Platforms	Supported on all platforms

data *binary*

Description	DER encoded X.509 certificate
Context	platform trust tpm control slot *string* certificates name *string* data *binary*
Tree	data
Configurable	False
Platforms	Supported on all platforms

nv-index *number*

Description	NV index for the certificate
Context	platform trust tpm control slot *string* certificates name *string* nv-index *number*
Tree	nv-index
Configurable	False
Platforms	Supported on all platforms

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oper-state *keyword*

Description	TPM chip self-test status
Context	platform trust tpm control slot *string* oper-state *keyword*
Tree	oper-state
Options	• up The TPM currently is running normally and is ready to accept and process TPM quotes • down TPM is in a state such as startup or shutdown which precludes the processing of TPM quotes
Configurable	False
Platforms	Supported on all platforms

tpm20-pcr-bank tpm20-hash-algo *string*

Description	Specifies the list of PCRs that may be extracted for a specific Hash Algorithm A TPM2.0 bank is a set of PCRs which are extended using a particular hash algorithm
Context	platform trust tpm control slot *string* tpm20-pcr-bank tpm20-hash-algo *string*
Tree	tpm20-pcr-bank
Configurable	False
Platforms	Supported on all platforms

tpm20-hash-algo *string*

Description	The hash algorithm that is used to hash TPM2.0 PCRs
Context	platform trust tpm control slot *string* tpm20-pcr-bank tpm20-hash-algo *string*
Configurable	False
Platforms	Supported on all platforms

pcr-index *number*

Description	List the TPM2.0 PCRs available to be extracted
Context	platform trust tpm control slot *string* tpm20-pcr-bank tpm20-hash-algo *string* pcr-index *number*
Tree	pcr-index

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Range	0 to 31
Configurable	False
Platforms	Supported on all platforms

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9 qos

```
qos
+  buffer-management
   +  buffer-allocation-profile name string
      +  queues
         +  pfc-queue pfc-queue-name reference
            +  maximum-burst-size number
            +  maximum-pfc-reserved-share-bytes number
            +  maximum-pfc-reserved-share-percentage number
            +  pfc-off-threshold number
            +  pfc-on-threshold number
         +  queue queue-name reference
            +  committed-burst-size number
            +  high-threshold-bytes number
            +  low-threshold-bytes number
            +  low-threshold-count number
            +  maximum-burst-size number
            +  maximum-burst-size-delay number
            +  queue-depth-sampling boolean
   +  queue-management-profile name string
      +  weight-factor number
      +  wred
         +  wred-slope traffic-type keyword drop-probability keyword enable-ecn boolean
            +  max-drop-probability-percent number
            +  max-threshold number
            +  max-threshold-percent number
            +  min-threshold number
            +  min-threshold-percent number
            +  slope-enabled boolean
            -  weight-factor number
+  classifiers
   +  dot1p-policy name string
      +  dot1p value number
         +  drop-probability keyword
         +  forwarding-class reference
   +  dscp-policy name string
      +  dscp value (number | keyword)
         +  drop-probability keyword
         +  forwarding-class reference
   +  dscp-reclassify-policy name string
      +  dscp value (number | keyword)
         +  forwarding-class reference
   +  mpls-traffic-class-policy name string
      +  traffic-class value number
         +  drop-probability keyword
         +  forwarding-class reference
   +  multifield-classifier name string
      +  entry sequence-id number
         +  action
            +  drop-probability keyword
            +  forwarding-class reference
            +  rewrite
               +  set-dscp number
         +  match
            +  ipv4
               +  destination-ip
                  +  address string
```


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```
                  +  mask string
                  +  prefix string
                  +  prefix-list name reference
               +  dscp-set (number | keyword)
               +  first-fragment boolean
               +  fragment boolean
               +  icmp
                  +  code number
                  +  type (number | keyword)
               +  protocol (number | keyword)
               +  source-ip
                  +  address string
                  +  mask string
                  +  prefix string
                  +  prefix-list name reference
            +  ipv6
               +  destination-ip
                  +  address string
                  +  mask string
                  +  prefix string
                  +  prefix-list name reference
               +  dscp-set (number | keyword)
               +  icmp6
                  +  code number
                  +  type (number | keyword)
               +  next-header (number | keyword)
               +  source-ip
                  +  address string
                  +  mask string
                  +  prefix string
                  +  prefix-list name reference
            +  transport
               +  destination-port
                  +  operator keyword
                  +  port-list name reference
                  +  range
                     +  end (number | keyword)
                     +  start (number | keyword)
                  +  value (number | keyword)
               +  source-port
                  +  operator keyword
                  +  port-list name reference
                  +  range
                     +  end (number | keyword)
                     +  start (number | keyword)
                  +  value (number | keyword)
               +  tcp-flags string
         -  tcam-entries
            -  forwarding-complex complex-identifier string
               -  input-total number
               -  output-total number
               -  single-instance number
      +  type keyword
   +  static-mpls-lsp-egress reference
   +  vxlan-default reference
+  explicit-congestion-notification
   +  ecn-dscp-policy reference
+  forwarding-classes
   +  forwarding-class name string
      +  output
         +  multicast-queue reference
         +  unicast-queue reference
+  input-class-map name string
   +  forwarding-class name reference
```


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```
      +  policers
         +  broadcast-policer reference
         +  multicast-policer reference
         +  unicast-policer reference
         +  unknown-unicast-policer reference
+  interfaces
   +  interface interface-id string
      +  dcbx
         +  admin-state keyword
         -  ets-tlv
            -  local-credit-based-shaper number
            -  local-maximum-traffic-classes number
            -  priority index number
               -  local-priority-assignment number
               -  remote-priority-assignment-configuration number
               -  remote-priority-assignment-recommendation number
            -  remote-credit-based-shaper number
            -  remote-maximum-traffic-classes number
            -  traffic-class traffic-class-index number
               -  local-traffic-class-bandwidth-assignment number
               -  local-tsa-value number
               -  remote-traffic-class-bandwidth-assignment-configuration number
               -  remote-traffic-class-bandwidth-assignment-recommendation number
               -  remote-tsa-value-configuration number
               -  remote-tsa-value-recommendation number
         -  oper-state keyword
         -  oper-state-reason keyword
         -  pfc-priority index number
            -  oper-state keyword
            -  remote-state keyword
      +  input
         +  classifiers
            +  classifier type keyword
               +  name reference
            +  default
               +  drop-probability keyword
               +  forwarding-class reference
            +  dot1p-policy reference
            +  dscp-policy reference
            +  ipv4-dscp-policy reference
            +  ipv6-dscp-policy reference
            +  mpls-traffic-class-policy reference
         +  input-class-map reference
         +  pfc-buffer-allocation-profile reference
         +  policer-policies
            +  enable-policer-statistics boolean
            +  interface-policer reference
            -  policer policer-id reference
               -  committed-burst-size number
               -  committed-rate number
               -  excess-burst-size number
               -  excess-rate number
               -  forwarding-class name reference
                  -  forwarding-type keyword
               -  policer-statistics
                  -  aggregate-statistics
                     -  accepted-in-octets number
                     -  accepted-in-packets number
                     -  accepted-inplus-octets number
                     -  accepted-inplus-packets number
                     -  accepted-out-octets number
                     -  accepted-out-packets number
                     -  exceed-octets number
                     -  exceed-packets number
```


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```
                     -  last-clear string
                  -  per-lag-member-statistics
                     -  linecard slot number
                        -  forwarding-complex name keyword
                           -  accepted-in-octets number
                           -  accepted-in-packets number
                           -  accepted-inplus-octets number
                           -  accepted-inplus-packets number
                           -  accepted-out-octets number
                           -  accepted-out-packets number
                           -  exceed-octets number
                           -  exceed-packets number
                           -  last-clear string
            +  policer-policy reference
            -  policer-policy-allocation-pending
               -  policer string
               -  policer-statistics string
         +  policer-templates
            -  policer sequence-id number
            +  policer-template reference
      +  interface-ref
         +  interface reference
         +  subinterface reference
      +  output
         +  buffer-allocation-profile reference
         -  lag-bundle-pending boolean
         -  lag-system-port-pending reference
         -  output-class-map-pending reference
         +  queues
            +  queue queue-name reference
               -  active-queue-management
                  -  wred-slope traffic-type keyword drop-probability keyword enable-
ecn boolean
                     -  drop boolean
                     -  max-probability number
                     -  max-threshold-bytes number
                     -  min-threshold-bytes number
               -  forwarding-class string
               -  queue-depth
                  -  average-1 number
                  -  average-15 number
                  -  average-5 number
                  -  committed-burst-size number
                  -  high-threshold-bytes number
                  -  high-watermark-1 number
                  -  high-watermark-15 number
                  -  high-watermark-5 number
                  -  last-high-threshold-time string
                  -  maximum-burst-size number
                  -  missed-polling-intervals number
               +  queue-management-profile reference
               -  queue-statistics
                  -  aggregate-statistics
                     -  ecn-marked-octets number
                     -  ecn-marked-packets number
                     -  egq-dropped-octets number
                     -  egq-dropped-packets number
                     -  exceed-profile
                        -  dropped-octets number
                        -  dropped-packets number
                        -  transmitted-octets number
                        -  transmitted-packets number
                     -  in-plus-profile
                        -  dropped-octets number
```


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```
                  - dropped-packets number
                  - transmitted-octets number
                  - transmitted-packets number
               - in-profile
                  - dropped-octets number
                  - dropped-packets number
                  - transmitted-octets number
                  - transmitted-packets number
               - last-clear string
               - out-profile
                  - dropped-octets number
                  - dropped-packets number
                  - transmitted-octets number
                  - transmitted-packets number
               - queue-depth
                  - high-threshold-bytes number
                  - last-high-threshold-time string
               - trimmed-packets number
               - virtual-output-queue slot number
                  - high-drop-probability
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - low-drop-probability
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - medium-drop-probability
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - queue-depth
                     - high-threshold-bytes number
                     - last-high-threshold-time string
            - per-lag-member-statistics
               - member-interface member-interface-name string
                  - ecn-marked-octets number
                  - ecn-marked-packets number
                  - egq-dropped-octets number
                  - egq-dropped-packets number
                  - exceed-profile
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - in-plus-profile
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - in-profile
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - out-profile
                     - dropped-octets number
                     - dropped-packets number
                     - transmitted-octets number
                     - transmitted-packets number
                  - queue-depth
```


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```
                        -  high-threshold-bytes number
                        -  last-high-threshold-time string
                     -  trimmed-packets number
                     -  virtual-output-queue slot number
                        -  high-drop-probability
                           -  dropped-octets number
                           -  dropped-packets number
                           -  transmitted-octets number
                           -  transmitted-packets number
                        -  low-drop-probability
                           -  dropped-octets number
                           -  dropped-packets number
                           -  transmitted-octets number
                           -  transmitted-packets number
                        -  medium-drop-probability
                           -  dropped-octets number
                           -  dropped-packets number
                           -  transmitted-octets number
                           -  transmitted-packets number
                        -  queue-depth
                           -  high-threshold-bytes number
                           -  last-high-threshold-time string
            -  scheduling
               -  committed-rate-bps number
               -  committed-rate-percent number
               -  peak-rate-bps number
               -  peak-rate-percent number
               -  priority-level number
               -  strict-priority boolean
               -  weight number
      +  rewrite-rules
         +  dot1p-policy reference
         +  dscp-policy reference
         +  ipv4-dscp-policy reference
         +  ipv6-dscp-policy reference
         +  mpls-traffic-class-policy reference
      +  scheduler
         +  scheduler-policy reference
      -  voq-interface name string
         -  queue queue-name reference
            -  queue-depth
               -  congestion-event index number
                  -  end-time string
                  -  high-watermark number
                  -  start-time string
                  -  status keyword
      -  voq-set-pending reference
      -  voq-set-statistics-pending reference
   +  pfc
      -  deadlock-detection-timer number
      +  pfc-enable boolean
      +  pfc-mapping-profile reference
      -  pfc-queue pfc-queue-name reference
         -  peak-pfc-buffer-used number
         -  pfc-buffer-used number
         -  pfc-enable boolean
         -  pfc-maximum-burst-size number
         -  pfc-maximum-pfc-reserved-share number
         -  pfc-off-threshold-bytes number
         -  pfc-on-threshold-bytes number
         -  pfc-reserved-buffer-used number
      -  source-pfc-mac string
      -  statistics
         -  last-clear string
```


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```
            -  pfc-priority index number
               -  deadlock-recovery-occurrences number
               -  pfc-pause-frames-generated number
               -  pfc-pause-frames-received number
               -  pfc-transitions number
            -  total-packet-pfc-discards number
            -  total-pfc-pause-frames-generated number
            -  total-pfc-pause-frames-received number
      +  voq-statistics boolean
      -  voq-statistics-allocation-status keyword
+  linecard slot number
   +  forwarding-complex name keyword
      +  input
         +  pfc-buffer-reservation number
         -  pfc-reserved-buffer-size number
      +  output
+  output-class-map name string
   +  forwarding-class name reference
      +  queue
         +  name reference
         +  re-direct-to keyword
+  packet-trimming
   +  enable-packet-trimming boolean
   -  last-clear string
   +  trimmable-dscp dscp-value (number | keyword)
      +  trimmed-dscp (number | keyword)
      +  trimmed-packets-queue reference
   +  trimmable-queues reference
   -  trimmed-packets number
+  pfc-mapping-profile name string
   +  pfc-priority index number
      +  pfc-enable boolean
   +  received-pfc-pause-frames
      +  deadlock
         +  detection-timer number
         +  enable boolean
         +  recovery-timer number
      +  queue queue-name reference
         +  pfc-pause-frame-priority number
   +  received-traffic
      +  unicast-mapping
         +  pfc-queue pfc-queue-name reference
            +  dot1p number
            +  forwarding-class reference
            +  pfc-pause-frame-priority number
+  policer-policies
   +  policer-policy name string
      +  policer policer-id number
         +  adaptation-rules
            +  committed-rate keyword
            +  excess-rate keyword
         +  algorithm-type keyword
         +  color-aware-mode boolean
         +  committed-burst-size number
         +  committed-rate number
         +  excess-burst-size number
         +  excess-rate number
+  policer-templates
   +  policer-template name string
      +  policer sequence-id number
         +  committed-burst-size number
         +  committed-rate-kbps number
         +  exceed-action
            +  drop-probability keyword
```


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```
         +  forwarding-class fc reference
            +  forwarding-type keyword
         +  maximum-burst-size number
         +  peak-rate-kbps number
         +  violate-action
            +  drop
            +  drop-probability keyword
      +  statistics-mode keyword
+  policers
   +  discard-all-high-drop-probability boolean
   +  policer name string
      -  allocation-pending
         -  policer string
         -  policer-statistics string
      +  color-aware-mode boolean
      -  last-clear string
      +  one-rate-two-color
         +  committed-burst-size number
         +  committed-rate number
         +  conform-action
            -  conforming-octets number
            -  conforming-packets number
         +  violate-action
            -  violating-octets number
            -  violating-packets number
      +  two-rate-three-color
         +  committed-burst-size number
         +  committed-rate number
         +  conform-action
            -  conforming-octets number
            -  conforming-packets number
         +  exceed-action
            -  exceeding-octets number
            -  exceeding-packets number
         +  excess-burst-size number
         +  peak-rate number
         +  violate-action
            -  violating-octets number
            -  violating-packets number
      +  type keyword
+  preserve-dscp boolean
+  queues
   +  pfc-queue pfc-queue-name string
      +  queue-index number
   +  queue name string
      +  queue-index number
   +  queue-depth-sampling
      +  admin-state keyword
      +  polling-interval number
+  rewrite-rules
   +  dot1p-policy name string
      +  map forwarding-class reference
         +  dot1p number
         +  drop-probability drop-probability keyword
            +  dot1p number
   +  dscp-policy name string
      +  map forwarding-class reference
         +  drop-probability drop-probability keyword
            +  dscp (number | keyword)
         +  dscp (number | keyword)
   +  ip-rewrite-policy name string
      +  exceed
         +  dscp (number | keyword)
         +  precedence number
```


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```
      +  in
         +  dscp (number | keyword)
         +  precedence number
      +  in-plus
         +  dscp (number | keyword)
         +  precedence number
      +  out
         +  dscp (number | keyword)
         +  precedence number
   +  mpls-traffic-class-policy name string
      +  map forwarding-class reference
         +  drop-probability drop-probability keyword
            +  traffic-class number
         +  traffic-class number
   +  vxlan-outer-header-dscp-policy reference
+  scheduler-policies
   +  scheduler-policy name string
      +  scheduler sequence number
         +  input id string
            +  committed-rate-kbps number
            +  committed-rate-percent number
            +  input-type keyword
            +  peak-rate-kbps number
            +  peak-rate-percent number
            +  priority-level number
            +  queue-name reference
            +  weight number
         +  output
            +  output-type keyword
            +  peak-rate-percent number
         +  priority keyword
```


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9.1 qos Descriptions

qos

Description Enter the qos context

Top-level container for QoS data

Context qos

Tree qos

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

buffer-management

Description Enter the buffer-management context

Container for the list of configured queue management profiles

Context qos buffer-management

Tree buffer-management

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

buffer-allocation-profile name *string*

Description The name of a buffer-allocation-profile

Context qos buffer-management buffer-allocation-profile name *string*

Tree buffer-allocation-profile

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Unique string name used for the buffer-allocation-profile
Context	qos buffer-management buffer-allocation-profile name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queues

Description	Enter the queues context
Context	qos buffer-management buffer-allocation-profile name *string* queues
Tree	queues
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue pfc-queue-name *reference*

Description	List of pfc-queues
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference*
Tree	pfc-queue

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Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue-name *reference*

Description	The pfc-queue name
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference*
Reference	qos queues pfc-queue pfc-queue-name *string*
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-burst-size *number*

Description	Maximum amount of shared buffer memory available for the given pfc-queue
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference* maximum-burst-size *number*
Tree	maximum-burst-size
Default	51200
Units	bytes
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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maximum-pfc-reserved-share-bytes *number*

Description	Maximum level the pfc-queue can take from pfc-reserved buffer configured per given forwarding-complex expressed as bytes. If this value is configured, maximum-pfc-reserved-share-percentage value is ignored
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference* maximum-pfc-reserved-share-bytes *number*
Tree	maximum-pfc-reserved-share-bytes
Range	0 to 104857600
Units	bytes
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

maximum-pfc-reserved-share-percentage *number*

Description	Maximum level the pfc-queue can take from pfc-reserved buffer configured per given forwarding-complex
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference* maximum-pfc-reserved-share-percentage *number*
Tree	maximum-pfc-reserved-share-percentage
Range	0 to 100
Default	10
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-off-threshold *number*

Description	Defines the pfc-queue depth at which pfc-pause-frames will stop be generated. It is expressed as percentage of maximum-burst-size
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference* pfc-off-threshold *number*
Tree	pfc-off-threshold
Range	1 to 100

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Default	80
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-on-threshold *number*

Description	Defines the pfc-queue depth at which pfc-pause-frames genaration will start. It is expressed as percentage of maximum-burst-size
Context	qos buffer-management buffer-allocation-profile name *string* queues pfc-queue pfc-queue-name *reference* pfc-on-threshold *number*
Tree	pfc-on-threshold
Range	1 to 100
Default	100
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue queue-name *reference*

Description	List of queues
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference*
Tree	queue
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *reference*

Description	The queue name
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference*

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Reference	qos queues queue name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-burst-size *number*

Description	Committed queue length expressed in bytes
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* committed-burst-size *number*
Tree	committed-burst-size
Units	bytes
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

high-threshold-bytes *number*

Description	The queue depth that, when crossed in a rising direction, signals a potential start of congestion On IXR-6/10 this parameter applies to all VOQs associated with the egress queue. On 7220-D2/D3/H2/H3 this parameter applies to the unicast queue only; the configuration of this leaf is ignored when the queue-template is attached to a queue with queue-type other than unicast. The actions that follow the start of congestion depend on whether queue-depth-sampling is true or false. If queue-depth-sampling is false, the system time is recorded and no further actions are taken. If queue-depth sampling is true, the system starts a rapid queue-depth polling process that profiles the entire duration of congestion. On 7220-D2/D3 the threshold is rounded up the nearest multiple of 2048 bytes. On IXR-6e/10e the threshold is rounded up to the nearest multiple of 4096 bytes. On 7220-H2/H3 the threshold is rounded up to the nearest multiple of 254 bytes. The default value of 0 disables the functionality.
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* high-threshold-bytes *number*
Tree	high-threshold-bytes

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Default	0
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-threshold-bytes *number*

Description	The queue depth that, when crossed in a falling direction, signals a potential end of congestion When queue-depth-sampling is enabled and a VOQ associated with the egress queue is in a congested state the periodic pollling of that VOQ's depth ends when there have been low-threshold-count samples recording a depth below the low-threshold-bytes.
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* low-threshold-bytes *number*
Tree	low-threshold-bytes
Range	4096 to 4294967295
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-threshold-count *number*

Description	The number of consecutive queue-depth samples below low-threshold-bytes that are required to declare the end of congestion When queue-depth-sampling is enabled and a VOQ associated with the egress queue is in a congested state the periodic pollling of that VOQ's depth ends when there have been low-threshold-count samples recording a depth below the low-threshold-bytes.
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* low-threshold-count *number*
Tree	low-threshold-count
Range	1 to 255
Default	3
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-burst-size *number*

Description	Maximum amount of shared buffer memory available to the queue. On IXR-6/10 this parameter applies to a set of VOQs. If the configured value is 0 or no value is configured the limit is 256 MB (268435456 bytes), however the use of 'alpha' may limit the effective value to less than 256 MB. A configured non-zero value sets a static limit without 'alpha'. On 7220-D2/D3/D5/H2/H3 this parameter applies to an egress queue and the default value of zero instructs the forwarding chip to apply its own limit based on 'alpha'. A non-zero value disables 'alpha'. The alpha value is 5 (0.25 multiplier of shared buffer space) for unicast queues and 4 (0.125 multiplier of shared buffer space) for multicast queues. Must be non-zero/non-default in order to add the active-queue-management presence container
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* maximum-burst-size *number*
Tree	maximum-burst-size
Default	0
Units	bytes
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-burst-size-delay *number*

Description	Maximum amount of shared buffer memory available to the queue, expressed as a function of time-delay. The number of bytes is calculated by multiplying maximum-burst-size-delay by interface speed the queue is attached to. Must be non-zero/non-default in order to take effect, and when so, the bytes based maximum-burst-size leaf is meaningless.
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* maximum-burst-size-delay *number*

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Tree	maximum-burst-size-delay
Range	1 to 4294967295
Units	microseconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth-sampling *boolean*

Description	True setting enables triggered queue-depth sampling When this setting is enabled and the queue depth of any VOQ associated with the egress queue exceeds the high-threshold, the system records the congestion start-time and begins collecting regular samples of the VOQ's depth. The periodic sampling continues until the low-threshold conditions are met.
Context	qos buffer-management buffer-allocation-profile name *string* queues queue queue-name *reference* queue-depth-sampling *boolean*
Tree	queue-depth-sampling
Default	false
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-management-profile name *string*

Description	The name of a queue management profile
Context	qos buffer-management queue-management-profile name *string*
Tree	queue-management-profile
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Unique string name used for the queue management profile

Context qos buffer-management queue-management-profile name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight-factor *number*

Description Weight factor to use in the calculation of the current (average weighted) queue depth

Context qos buffer-management queue-management-profile name *string* weight-factor *number*

Tree weight-factor

Range 0 to 15

Default 0

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wred

Description Enter the wred context

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Configuration and operational state parameters relating to Weighted Random Early Detection (WRED)

Context qos buffer-management queue-management-profile name *string* wred

Tree wred

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Description List of WRED slopes

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Tree wred-slope

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-type *keyword*

Description The traffic type to which the WRED slope applies

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Options

- tcp

  Refers to IPv4/IPv6 packets with a protocol/next-header indicating a value of 6

- non-tcp

  Refers to all packets that are not IPv4/IPv6 packets with a protocol/next-header indicating a value of 6

- all

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Refers to all traffic, whether it is TCP or non-TCP

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description The drop probability to which the WRED slope applies

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red

- all

  All traffic, consisting of traffic marked low, medium and high drop-probability

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-ecn *boolean*

Description When this leaf is true and the number of packets in the queue is between the minimum threshold and the maximum threshold, if the ECN field on

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the packet indicates that the endpoints are ECN capable and the WRED algorithm determines that the packet should have been dropped based on the drop probability, the CE bits for the packet are changed to 1, and the packet is transmitted. When set to false, the such packets will be discarded based on wred-slope

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-drop-probability-percent *number*

Description The probability with which packets are dropped or marked at max-threshold

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* max-drop-probability-percent *number*

Tree max-drop-probability-percent

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-threshold *number*

Description The maximum threshold parameter for a RED-managed queue. When the average queue length exceeds the max-threshold, the packets are dropped (or marked if ECN is enabled).

When both, 'drop' and 'ecn-enable' flags are set to false, packets will be drop only if the mbs of the queue is reached

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Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* max-threshold *number*

Tree max-threshold

Units bytes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-threshold-percent *number*

Description The percentage of the MBS that corresponds to the WRED maximum threshold parameter

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* max-threshold-percent *number*

Tree max-threshold-percent

Range 0 to 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-threshold *number*

Description The mininum threshold parameter for a RED-managed queue. When the average queue length is less than min-threshold, the packets are admitted to the queue (without any ECN marking change)

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* min-threshold *number*

Tree min-threshold

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Units	bytes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-threshold-percent *number*

Description	The percentage of the MBS that corresponds to the WRED mininum threshold parameter
Context	qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* min-threshold-percent *number*
Tree	min-threshold-percent
Range	0 to 100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slope-enabled *boolean*

Description	Reads true if traffic is dropped by WRED
Context	qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* slope-enabled *boolean*
Tree	slope-enabled
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight-factor *number*

Description Actual Weight factor used in the calculation of the current (average weighted) queue depth

Context qos buffer-management queue-management-profile name *string* wred wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* weight-factor *number*

Tree weight-factor

Range 0 to 15

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

classifiers

Description Enter the classifiers context

Context qos classifiers

Tree classifiers

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p-policy name *string*

Description Enter the dot1p-policy list instance

Context qos classifiers dot1p-policy name *string*

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Tree	dot1p-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User-configured name for a 802.1p prioriy code point mapping policy The name 'default' is reserved for the system default dot1p mapping policy
Context	qos classifiers dot1p-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p value *number*

Description	Enter the dot1p list instance
Context	qos classifiers dot1p-policy name *string* dot1p value *number*
Tree	dot1p
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	Enter the value context
Context	qos classifiers dot1p-policy name *string* dot1p value *number*

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Range	0 to 7
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description	The drop probability to which the dot1p value is mapped
Context	qos classifiers dot1p-policy name *string* dot1p value *number* drop-probability *keyword*
Tree	drop-probability
Options	• low Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green. • medium Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow. • high Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class
Context	qos classifiers dot1p-policy name *string* dot1p value *number* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-policy name *string*

Description	Enter the dscp-policy list instance
Context	qos classifiers dscp-policy name *string*
Tree	dscp-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User-configured name for a DSCP mapping policy The name 'default' is reserved for the system default DSCP mapping policy
Context	qos classifiers dscp-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp value *(number | keyword)*

Description	Enter the dscp list instance
Context	qos classifiers dscp-policy name *string* dscp value *(number | keyword)*

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Tree	dscp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(number | keyword)*

Description	Enter the value context
Context	qos classifiers dscp-policy name *string* dscp value *(number | keyword)*
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22 • AF23 • CS3 • AF31 • AF32 • AF33 • CS4 • AF41 • AF42 • AF43 • CS5 • EF • CS6 • CS7

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description	The drop probability to which the DSCP value is mapped
Context	qos classifiers dscp-policy name *string* dscp value *(number | keyword)* drop-probability *keyword*
Tree	drop-probability
Options	• low Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green. • medium Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow. • high Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class
Context	qos classifiers dscp-policy name *string* dscp value *(number | keyword)* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-reclassify-policy name *string*

Description	Egress DSCP reclassification policy
Context	qos classifiers dscp-reclassify-policy name *string*
Tree	dscp-reclassify-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of egress dscp-reclassifier policy
Context	qos classifiers dscp-reclassify-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp value *(number | keyword)*

Description	Enter the dscp list instance
Context	qos classifiers dscp-reclassify-policy name *string* dscp value *(number | keyword)*

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Tree	dscp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(number | keyword)*

Description	Enter the value context
Context	qos classifiers dscp-reclassify-policy name *string* dscp value *(number | keyword)*
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22 • AF23 • CS3 • AF31 • AF32 • AF33 • CS4 • AF41 • AF42 • AF43 • CS5 • EF • CS6 • CS7

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class
Context	qos classifiers dscp-reclassify-policy name *string* dscp value *(number | keyword)* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-traffic-class-policy name *string*

Description	Enter the mpls-traffic-class-policy list instance
Context	qos classifiers mpls-traffic-class-policy name *string*
Tree	mpls-traffic-class-policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User-configured name for an MPLS traffic-class mapping policy The name 'default' is reserved for the system default MPLS TC mapping policy
Context	qos classifiers mpls-traffic-class-policy name *string*

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String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class value *number*

Description	Enter the traffic-class list instance
Context	qos classifiers mpls-traffic-class-policy name *string* traffic-class value *number*
Tree	traffic-class
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	A single traffic-class value
Context	qos classifiers mpls-traffic-class-policy name *string* traffic-class value *number*
Range	0 to 7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description	The drop probability to which the traffic-class value is mapped
Context	qos classifiers mpls-traffic-class-policy name *string* traffic-class value *number* drop-probability *keyword*
Tree	drop-probability
Options	• low Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green. • medium

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Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description The forwarding class

Context qos classifiers mpls-traffic-class-policy name *string* traffic-class value *number* forwarding-class *reference*

Tree forwarding-class

Reference qos forwarding-classes forwarding-class name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multifield-classifier name *string*

Description List of multifield-classifier QoS policies

Context qos classifiers multifield-classifier name *string*

Tree multifield-classifier

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description	The name of multifield-classifier QoS policy
Context	qos classifiers multifield-classifier name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry sequence-id *number*

Description	List of individual QoS multifield-classifier entries
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different terms; lower numbered terms are evaluated before higher numbered terms
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number*
Range	0 to 65535
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

action

Description Enter the action context

Container for the actions to be applied to packets matching the classifier entry.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* action

Tree action

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description Assign matching packets to the specified drop probability level

The implicit default, if not specified, is low drop-probability.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* action drop-probability *keyword*

Tree drop-probability

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms Supported on all platforms

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forwarding-class *reference*

Description	The forwarding class to which the DSCP value is mapped
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* action forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rewrite

Description	Enter the rewrite context Rewrite actions associated with packets that match the classifier entry. Where a packet matches these criteria, the specified rewrite actions should be performed.
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* action rewrite
Tree	rewrite
Configurable	True
Platforms	Supported on all platforms except 7250

set-dscp *number*

Description	Sets the 6-bit DSCP (differentiated services code point) value in the IP packet header.
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* action rewrite set-dscp *number*
Tree	set-dscp
Range	0 to 63
Configurable	True
Platforms	Supported on all platforms except 7250

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match

Description Enter the match context

Matching conditions for QoS multifield-classifier

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match

Tree match

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Container for the layer-3 IPv4 match criteria

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip

Description Enter the destination-ip context

Packet matching criteria based on destination IPv4 address

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip

Tree destination-ip

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Match a packet if its destination IP address logically anded with the inverse of the mask equals this IP address.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip address *string*

Tree address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match a packet if its destination IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip mask *string*

Tree mask

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *string*

Description Match a packet if its destination IP address is within the specified IPv4 prefix.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list name *reference*

Description Match a packet if its destination IP address is within the specified IPv4 prefix list.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip prefix-list name *reference*

Tree prefix-list

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8

name *reference*

Description Enter the name context

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 destination-ip prefix-list name *reference*

Reference acl match-list ipv4-prefix-list name *string*

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-set *(number | keyword)*

Description A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 dscp-set *(number | keyword)*

Tree dscp-set

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6

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- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

first-fragment *boolean*

Description Match the first fragment of an IPv4 datagram

A packet matches the true condition if the IPv4 header indicates that the fragment-offset is zero and and the more-fragments bit is 1. It is not valid to configure this leaf without configuring a match value for the fragment leaf.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 first-fragment *boolean*

Tree first-fragment

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fragment *boolean*

Description Match an IPv4 fragment

A packet matches the true condition if the IPv4 header indicates that the fragment-offset is zero and and the more-fragments bit is 1 or if the IPv4 header indicates that the fragment-offset is greater than 0. A packet matches the false condition if it is unfragmented.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 fragment *boolean*

Tree fragment

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icmp

Description Enter the icmp context

A packet matches this condition if its ICMP type and code matches one of the specified combinations

The rule should also have a condition that the IP protocol equals 1 (ICMP) in order for this to be interpreted correctly.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 icmp

Tree icmp

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

code *number*

Description Match if the ICMP code value is any value in the list

Requires ICMP type to be specified because codes are type dependent.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 icmp code *number*

Tree code

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *(number | keyword)*

Description Match a single ICMP type value.

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Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 icmp type *(number | keyword)*

Tree type

Range 0 to 255

Options

- echo-reply
  ICMP Echo Reply
- dest-unreachable
  ICMP Destination Unreachable
- source-quench
  ICMP Source Quench
- redirect
  ICMP Redirect
- echo
  ICMP Echo
- router-advertise
  ICMP Router Advertisement
- router-solicit
  ICMP Router Solicitation
- time-exceeded
  ICMP Time Exceeded
- param-problem
  ICMP Parameter Problem
- timestamp
  ICMP Timestamp
- timestamp-reply
  ICMP Timestamp Reply

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocol *(number | keyword)*

Description An IPv4 packet matches this condition if its IP protocol type field matches the specified value

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 protocol *(number | keyword)*

Tree protocol

Range 0 to 255

Options

- ipv6-hop
  IPv6 hop-by-hop option
- icmp
  Internet Control Message Protocol
- igmp
  Internet Group Management Protocol
- ggp
  Gateway-to-Gateway Protocol
- ipv4
  IPv4 encapsulation
- st
  Stream Protocol
- tcp
  Transmission Control Protocol
- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation

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- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6
- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol
- mpls-in-ip
  MPLS Encapsulation inside IP
- rohc
  Robust Header Compression

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip

Description Enter the source-ip context

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Packet matching criteria based on source IPv4 address

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip

Tree source-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Match a packet if its source IP address logically anded with the inverse of the mask equals this IP address.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip address *string*

Tree address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match a packet if its source IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip mask *string*

Tree mask

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description Match a packet if its source IP address is within the specified IPv4 prefix.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list name *reference*

Description Match a packet if its source IP address is within the specified IPv4 prefix list.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip prefix-list name *reference*

Tree prefix-list

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 8

name *reference*

Description Enter the name context

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv4 source-ip prefix-list name *reference*

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Reference	acl match-list ipv4-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context Container for the layer-3 IPv6 match criteria
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6
Tree	ipv6
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip

Description	Enter the destination-ip context Packet matching criteria based on destination IPv6 address
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip
Tree	destination-ip
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description Match a packet if its destination IP address logically anded with the inverse of the mask equals this IP address.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip address *string*

Tree address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match a packet if its destination IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip mask *string*

Tree mask

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description Match a packet if its destination IP address is within the specified IPv6 prefix.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip prefix *string*

Tree prefix

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list name *reference*

Description	Match a packet if its destination IP address is within the specified IPv6 prefix list.
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip prefix-list name *reference*
Tree	prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *reference*

Description	Enter the name context
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 destination-ip prefix-list name *reference*
Reference	acl match-list ipv6-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dscp-set *(number | keyword)*

Description A list of DSCP values to be matched for incoming packets. An OR match should be performed, such that a packet must match one of the values defined in this list. If the field is left empty then any DSCP value matches.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 dscp-set *(number | keyword)*

Tree dscp-set

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmp6

Description Enter the icmp6 context

A packet matches this condition if its ICMPv6 type and code matches one of the specified combinations

The rule should also have a condition that the next-header value equals 58 (ICMPv6) in order for this to be interpreted correctly.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 icmp6

Tree icmp6

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

code *number*

Description Match if the ICMPv6 code value is any value in the list

Requires ICMPv6 type to be specified because codes are type dependent.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 icmp6 code *number*

Tree code

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *(number | keyword)*

Description Match a single ICMPv6 type value

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 icmp6 type *(number | keyword)*

Tree type

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Range 0 to 255

Options

- dest-unreachable
  ICMPv6 Destination Unreachable
- packet-too-big
  ICMPv6 Packet Too Big
- time-exceeded
  ICMPv6 Time Exceeded
- param-problem
  Parameter Problem
- echo-request
  ICMPv6 Echo Request
- echo-reply
  ICMPv6 Echo Reply
- mld-query
  Multicast Listener Discovery Query
- mld-report
  Multicast Listener Discovery Report
- mld-done
  Multicast Listener Discovery Done
- router-solicit
  ICMPv6 Router Solicitation
- router-advertise
  ICMPv6 Router Advertisement
- neighbor-solicit
  ICMPv6 Neighbor Solicitation
- neighbor-advertise
  ICMPv6 Neighbor Advertisement
- redirect
  ICMPv6 Redirect
- router-renumber
  ICMPv6 Router Renumbering
- node-info-query
  ICMPv6 Node Information Query
- node-info-response
  ICMPv6 Node Information Response
- mld-v2

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Multicast Listener Discovery Version 2

- mcast-rtr-adv

  Multicast Router Advertisement

- mcast-rtr-solicit

  Multicast Router Solicitation

- mcast-rtr-term

  Multicast Router Termination

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-header *(number | keyword)*

Description An IPv6 packet matches this condition if its first next-header field (in the IPv6 fixed header) contains the specified value

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 next-header *(number | keyword)*

Tree next-header

Range 0 to 255

Options

- ipv6-hop

  IPv6 hop-by-hop option

- icmp

  Internet Control Message Protocol

- igmp

  Internet Group Management Protocol

- ggp

  Gateway-to-Gateway Protocol

- ipv4

  IPv4 encapsulation

- st

  Stream Protocol

- tcp

  Transmission Control Protocol

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- egp
  Exterior Gateway Protocol
- igp
  Interior Gateway Protocol
- udp
  User Datagram Protocol
- ipv6
  IPv6 encapsulation
- idrp
  Inter-Domain Routing Protocol
- rsvp
  Resource Reservation Protocol
- gre
  Generic Routing Encapsulation
- esp
  IPSec Encapsulating Security Payload
- ah
  IPSec Authentication Header
- icmp6
  IPSec Authentication Header
- no-next-hdr
  No Next Header for IPv6
- ipv6-dest-opts
  Destination Options for IPv6
- eigrp
  Cisco EIGRP
- ospf
  OSPFv2 and OSPFv3
- pim
  Protocol Independent Multicast
- vrrp
  Virtual Router Redundancy Protocol
- l2tp
  Layer Two Tunneling Protocol
- sctp
  Stream Control Transmission Protocol

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- mpls-in-ip

  MPLS Encapsulation inside IP
- rohc

  Robust Header Compression

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip

Description Enter the source-ip context

Packet matching criteria based on source IPv6 address

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip

Tree source-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Match a packet if its source IP address logically anded with the inverse of the mask equals this IP address.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip address *string*

Tree address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mask *string*

Description Match a packet if its source IP address logically anded with the inverse of this mask equals the configured IP address logically anded with the inverse of this mask.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip mask *string*

Tree mask

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description Match a packet if its source IP address is within the specified IPv6 prefix.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip prefix *string*

Tree prefix

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list name *reference*

Description Match a packet if its source IP address is within the specified IPv6 prefix list.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip prefix-list name *reference*

Tree prefix-list

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *reference*

Description	Enter the name context
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match ipv6 source-ip prefix-list name *reference*
Reference	acl match-list ipv6-prefix-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport

Description	Enter the transport context Container for the layer-4 transport match criteria
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport
Tree	transport
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-port

Description Enter the destination-port context

A packet matches this condition if its destination TCP or UDP port number matches the value or range or within the port-lists that is specified

The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port

Tree destination-port

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operator *keyword*

Description Comparison operator

eq = equal ge = greater than or equal to le = less than or equal to

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port operator *keyword*

Tree operator

Options

- le

  Less than or equal.

- ge

  Greater than or equal.

- eq

  Equal to.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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port-list name *reference*

Description	Name of the port list
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port port-list name *reference*
Tree	port-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *reference*

Description	Enter the name context
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port port-list name *reference*
Reference	acl match-list port-list name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range

Description	Enter the range context Container used to specify a contiguous range of TCP/UDP port numbers
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port range
Tree	range
Configurable	True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *(number | keyword)*

Description The ending port number to include in the range

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

  BFD Echo
- bftp

  Background File Transfer Program

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- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing

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- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server

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- hp-alarm-mgr

  HP data alarm manager
- http

  Hypertext Transfer Protocol
- http-alt

  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI

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- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link

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- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service

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- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages

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- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)

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- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol

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- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *(number | keyword)*

Description The starting port number to include in the range

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port range start *(number | keyword)*

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Tree start

Range 0 to 65535

Options

- acap
  Application Configuration Access Protocol
- afp-tcp
  Apple Filing Protocol over TCP
- arns
  A Remote Network Server System
- asf-rmcp
  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare
  AppleShare IP Web Administration
- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen

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Character Generator Protocol (CHARGEN)

- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec

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Remote Process Execution (Rexec)

- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https

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Hypertext Transfer Protocol over TLS/SSL

- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password

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- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor
- mpp

  Message posting protocol (MPP)
- mssql-m

  Microsoft SQL Server database management system (MSSQL) monitor

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- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)

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- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol

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- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server

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- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol

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- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(number | keyword)*

Description A destination port number

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport destination-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

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ASF Remote Management and Control Protocol & IPMI Remote Management Protocol

- ashare

  AppleShare IP Web Administration

- atalk-rm

  AppleTalk Routing Maintenance

- aurp

  AppleTalk Update-Based Routing Protocol

- auth

  Authentication Service

- bfd

  Bidirectional Forwarding Detection Single Hop

- bfd-echo

  BFD Echo

- bftp

  Background File Transfer Program

- bgmp

  Border Gateway Multicast Protocol

- bgp

  Border Gateway Protocol

- bootpc

  Bootstrap Protocol (BOOTP) Client and DHCP Client

- bootps

  Bootstrap Protocol (BOOTP) Server and DHCP Server

- ccso-ns

  CCSO Nameserver

- chargen

  Character Generator Protocol (CHARGEN)

- cisco-tdp

  Cisco Tag Distribution Protocol

- citadel

  Citadel

- clearcase

  ClearCase albd

- commerce

  Commerce Applications

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- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control

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- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL

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- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

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Label Distribution Protocol

- lmp
  Link Management Protocol (LMP)
- login
  rlogin (TCP) or Who (UDP)
- lpd
  Line Printer Daemon
- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd

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Bidirectional Forwarding Detection Multi-Hop

- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr

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Optimized Link State Routing (OLSR)

- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip

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Routing Information Protocol

- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

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Structured Query Language (SQL) Services

- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)
- syslog

  Syslog (UDP) and Remote Shell (TCP)
- systat

  Active Users (systat service)
- tacacs

  TACACS Login Host protocol
- talk

  Talk
- tcpmux

  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)

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- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port

Description Enter the source-port context

A packet matches this condition if its source TCP or UDP port number matches the value or range or within the port-lists that is specified

The rule should also have a condition that the IP protocol equals 6 (TCP) or 17 (UDP) in order for this to be interpreted correctly.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port

Tree source-port

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operator *keyword*

Description Comparison operator

eq = equal ge = greater than or equal to le = less than or equal to

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port operator *keyword*

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Tree	operator
Options	• le Less than or equal. • ge Greater than or equal. • eq Equal to.
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-list name *reference*

Description	Name of the port list
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port port-list name *reference*
Tree	port-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *reference*

Description	Enter the name context
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port port-list name *reference*
Reference	acl match-list port-list name *string*
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

range

Description Enter the range context

Container used to specify a contiguous range of TCP/UDP port numbers

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port range

Tree range

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end *(number | keyword)*

Description The ending port number to include in the range

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port range end *(number | keyword)*

Tree end

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol

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- ashare
  AppleShare IP Web Administration
- atalk-rm
  AppleTalk Routing Maintenance
- aurp
  AppleTalk Update-Based Routing Protocol
- auth
  Authentication Service
- bfd
  Bidirectional Forwarding Detection Single Hop
- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call

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- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data

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- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol

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- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration
- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

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Link Management Protocol (LMP)

- login
  rlogin (TCP) or Who (UDP)
- lpd
  Line Printer Daemon
- lsp-ping
  MPLS LSP-echo
- mac-server-adm
  Mac OS X Server administration
- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas

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Netnews Administration System (NAS)

- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn

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OpenVPN

- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje

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Remote Job Entry

- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)
- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql

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Structured Query Language (SQL) Service

- ssh

  Secure Shell Protocol

- submission

  Email message submission (SMTP)

- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC

- svcloc

  Service Location Protocol (SLP)

- syslog

  Syslog (UDP) and Remote Shell (TCP)

- systat

  Active Users (systat service)

- tacacs

  TACACS Login Host protocol

- talk

  Talk

- tcpmux

  TCP Port Service Multiplexer (TCPMUX)

- tcpnethaspsrv

  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services

- tftp

  Trivial File Transfer Protocol (TFTP)

- time

  Time Protocol

- timed

  Timeserver

- ups

  Uninterruptible power supply (UPS)

- xdmcp

  X Display Manager Control Protocol (XDMCP)

- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)

- xns-mail

  Xerox Network Systems (XNS) Mail

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- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start *(number | keyword)*

Description The starting port number to include in the range

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port range start *(number | keyword)*

Tree start

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

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Bidirectional Forwarding Detection Single Hop

- bfd-echo
  BFD Echo
- bftp
  Background File Transfer Program
- bgmp
  Border Gateway Multicast Protocol
- bgp
  Border Gateway Protocol
- bootpc
  Bootstrap Protocol (BOOTP) Client and DHCP Client
- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom

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Digital Imaging and Communications in Medicine

- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol
- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u

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GTP user data messages (GTP-U)

- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)
- http-mgmt
  http-mgmt
- http-rpc
  Remote procedure call over Hypertext Transfer Protocol
- https
  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl
  IEEE Media Management System over SSL
- imap
  Internet Message Access Protocol (IMAP)
- imap3
  Internet Message Access Protocol (IMAP), version 3
- imaps
  Internet Message Access Protocol over TLS/SSL
- ipp
  Internet Printing Protocol
- ipsec
  Internet Protocol Security (IPSec)
- ipx
  Internetwork Packet Exchange (IPX)
- irc
  Internet Relay Chat (IRC)
- iris-beep
  IRIS (Internet Registry Information Service) over BEEP
- isakmp

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Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)

- isakmp-nat

  IPSec NAT Traversal

- iscsi

  iSCSI

- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol

- kerberos

  Kerberos authentication system

- kerberos-adm

  Kerberos administration

- klogin

  Kerberos login

- kpasswd

  Kerberos Change/Set password

- kshell

  Kerberos Remote shell

- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)

- ldap

  Lightweight Directory Access Protocol (LDAP)

- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)

- ldp

  Label Distribution Protocol

- lmp

  Link Management Protocol (LMP)

- login

  rlogin (TCP) or Who (UDP)

- lpd

  Line Printer Daemon

- lsp-ping

  MPLS LSP-echo

- mac-server-adm

  Mac OS X Server administration

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- matip-a
  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b
  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd
  BFD session over each LAG member link
- microsoft-ds
  Microsoft Directory Services
- mobile-ip
  Mobile IP Agent
- monitor
  Monitor
- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol

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- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts
- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)

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- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol
- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor

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- rpc2portmap

  Rpc2portmap
- rsync

  rsync file synchronization protocol
- rtelnet

  Remote User Telnet Service (RTelnet)
- rtsp

  Real Time Streaming Protocol (RTSP)
- sgmp

  Simple Gateway Monitoring Protocol (SGMP)
- silc

  Secure Internet Live Conferencing (SILC)
- smux

  SNMP multiplexing protocol (SMUX)
- sna-gw

  IBM Systems Network Architecture (SNA) gateway access server
- snmp

  Simple Network Management Protocol (SNMP)
- snmp-trap

  SNMP Traps
- snpp

  Simple Network Paging Protocol (SNPP)
- smtp

  Simple Mail Transfer Protocol (SMTP)
- sql-svcs

  Structured Query Language (SQL) Services
- sql

  Structured Query Language (SQL) Service
- ssh

  Secure Shell Protocol
- submission

  Email message submission (SMTP)
- sunrpc

  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc

  Service Location Protocol (SLP)

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- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services
- tftp
  Trivial File Transfer Protocol (TFTP)
- time
  Time Protocol
- timed
  Timeserver
- ups
  Uninterruptible power supply (UPS)
- xdmcp
  X Display Manager Control Protocol (XDMCP)
- xns-ch
  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail
  Xerox Network Systems (XNS) Mail
- xns-time
  Xerox Network Systems (XNS) Time Protocol
- z3950
  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *(number | keyword)*

Description A source port number

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport source-port value *(number | keyword)*

Tree value

Range 0 to 65535

Options

- acap

  Application Configuration Access Protocol
- afp-tcp

  Apple Filing Protocol over TCP
- arns

  A Remote Network Server System
- asf-rmcp

  ASF Remote Management and Control Protocol & IPMI Remote Management Protocol
- ashare

  AppleShare IP Web Administration
- atalk-rm

  AppleTalk Routing Maintenance
- aurp

  AppleTalk Update-Based Routing Protocol
- auth

  Authentication Service
- bfd

  Bidirectional Forwarding Detection Single Hop
- bfd-echo

  BFD Echo
- bftp

  Background File Transfer Program
- bgmp

  Border Gateway Multicast Protocol
- bgp

  Border Gateway Protocol
- bootpc

  Bootstrap Protocol (BOOTP) Client and DHCP Client

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- bootps
  Bootstrap Protocol (BOOTP) Server and DHCP Server
- ccso-ns
  CCSO Nameserver
- chargen
  Character Generator Protocol (CHARGEN)
- cisco-tdp
  Cisco Tag Distribution Protocol
- citadel
  Citadel
- clearcase
  ClearCase albd
- commerce
  Commerce Applications
- courier
  Remote Procedure Call
- daytime
  Daytime Protocol
- dhcpv6-client
  DHCPv6 Client
- dhcpv6-server
  DHCPv6 Server
- dhcp-failover
  DHCP Failover Protocol
- dicom
  Digital Imaging and Communications in Medicine
- discard
  Discard Protocol. Also Wake-on-LAN.
- dnsix
  DNSIX security protocol auditing
- domain
  Domain Name System
- dsp
  Display Support Protocol
- echo
  Echo Protocol

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- epp
  Extensible Provisioning Protocol
- esro
  Efficient Short Remote Operations (ESRO)
- exec
  Remote Process Execution (Rexec)
- finger
  Finger protocol
- ftp
  File Transfer Protocol control
- ftp-data
  File Transfer Protocol data
- ftps
  FTPS (FTP over SSL/TLS) control
- ftps-data
  FTPS (FTP over SSL/TLS) data
- godi
  Group Domain Of Interpretation (GDOI) protocol
- gopher
  Gopher protocol
- gtp-c
  GTP control messages (GTP-C)
- gtp-prime
  GTP prime CDR logging protocol
- gtp-u
  GTP user data messages (GTP-U)
- ha-cluster
  Linux-HA high-availability heartbeat
- hostname
  NIC hostname server
- hp-alarm-mgr
  HP data alarm manager
- http
  Hypertext Transfer Protocol
- http-alt
  FileMaker Web Sharing (HTTP Alternate)

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- http-mgmt

  http-mgmt
- http-rpc

  Remote procedure call over Hypertext Transfer Protocol
- https

  Hypertext Transfer Protocol over TLS/SSL
- ieee-mms-ssl

  IEEE Media Management System over SSL
- imap

  Internet Message Access Protocol (IMAP)
- imap3

  Internet Message Access Protocol (IMAP), version 3
- imaps

  Internet Message Access Protocol over TLS/SSL
- ipp

  Internet Printing Protocol
- ipsec

  Internet Protocol Security (IPSec)
- ipx

  Internetwork Packet Exchange (IPX)
- irc

  Internet Relay Chat (IRC)
- iris-beep

  IRIS (Internet Registry Information Service) over BEEP
- isakmp

  Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)
- isakmp-nat

  IPSec NAT Traversal
- iscsi

  iSCSI
- iso-tsap

  ISO Transport Service Access Point (TSAP) Class 0 protocol
- kerberos

  Kerberos authentication system
- kerberos-adm

  Kerberos administration

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Use subject to Terms available at: www.nokia.com/terms.

- klogin

  Kerberos login
- kpasswd

  Kerberos Change/Set password
- kshell

  Kerberos Remote shell
- l2tp

  Layer 2 Forwarding Protocol (L2F) and Layer 2 Tunneling Protocol (L2TP)
- ldap

  Lightweight Directory Access Protocol (LDAP)
- ldaps

  Lightweight Directory Access Protocol over TLS/SSL (LDAPS)
- ldp

  Label Distribution Protocol
- lmp

  Link Management Protocol (LMP)
- login

  rlogin (TCP) or Who (UDP)
- lpd

  Line Printer Daemon
- lsp-ping

  MPLS LSP-echo
- mac-server-adm

  Mac OS X Server administration
- matip-a

  Mapping of Airline Traffic over Internet Protocol (MATIP) type A
- matip-b

  Mapping of Airline Traffic over Internet Protocol (MATIP) type B
- micro-bfd

  BFD session over each LAG member link
- microsoft-ds

  Microsoft Directory Services
- mobile-ip

  Mobile IP Agent
- monitor

  Monitor

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- mpp
  Message posting protocol (MPP)
- mssql-m
  Microsoft SQL Server database management system (MSSQL) monitor
- mssql-s
  Microsoft SQL Server database management system (MSSQL) server
- msdp
  Multicast Source Discovery Protocol
- ms-exchange
  MS Exchange Routing
- msp
  Message Send Protocol
- multihop-bfd
  Bidirectional Forwarding Detection Multi-Hop
- nas
  Netnews Administration System (NAS)
- ncp
  NetWare Core Protocol
- netrjs-1
  NETRJS protocol
- netrjs-2
  NETRJS protocol
- netrjs-3
  NETRJS protocol
- netrjs-4
  NETRJS protocol
- netbios-data
  NetBIOS Datagram Service
- netbios-ns
  NetBIOS Name Service
- netbios-ss
  NetBIOS Session Service
- netnews
  Netnews
- netwall
  netwall, for Emergency Broadcasts

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- new-rwho
  new-rwho, new-who
- nfs
  Network File System (NFS)
- nntp
  Network News Transfer Protocol (NNTP)
- nntps
  Network News Transfer Protocol over TLS/SSL (NNTPS)
- ntp
  Network Time Protocol (NTP)
- odmr
  On-Demand Mail Relay (ODMR)
- olsr
  Optimized Link State Routing (OLSR)
- openvpn
  OpenVPN
- pim-auto-rp
  PIM Auto-RP
- pkix-timestamp
  PKIX Time Stamp Protocol (TSP)
- pop2
  Post Office Protocol, version 2 (POP2)
- pop3
  Post Office Protocol, version 3 (POP3)
- pop3s
  Post Office Protocol 3 over TLS/SSL (POP3S)
- pptp
  Point-to-Point Tunneling Protocol (PPTP)
- ptp-event
  Precision Time Protocol (PTP) event messages
- ptp-general
  Precision Time Protocol (PTP) general messages
- print-srv
  Network PostScript print server
- qmtp
  Quick Mail Transfer Protocol

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- qotd
  Quote of the Day (QOTD)
- radius
  RADIUS authentication protocol
- radius-acct
  RADIUS accounting protocol
- remote-mail
  Remote Mail Checking Protocol
- remotefs
  Remotefs, RFS Server
- remotecmd
  SupportSoft Nexus Remote Command
- rip
  Routing Information Protocol
- rje
  Remote Job Entry
- rlp
  Resource Location Protocol
- rlzdb
  RLZ DBase
- rmc
  IBM RMC (Remote monitoring and Control) protocol
- rmonitor
  rmonitor, Remote Monitor
- rpc2portmap
  Rpc2portmap
- rsync
  rsync file synchronization protocol
- rtelnet
  Remote User Telnet Service (RTelnet)
- rtsp
  Real Time Streaming Protocol (RTSP)
- sgmp
  Simple Gateway Monitoring Protocol (SGMP)
- silc
  Secure Internet Live Conferencing (SILC)

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- smux
  SNMP multiplexing protocol (SMUX)
- sna-gw
  IBM Systems Network Architecture (SNA) gateway access server
- snmp
  Simple Network Management Protocol (SNMP)
- snmp-trap
  SNMP Traps
- snpp
  Simple Network Paging Protocol (SNPP)
- smtp
  Simple Mail Transfer Protocol (SMTP)
- sql-svcs
  Structured Query Language (SQL) Services
- sql
  Structured Query Language (SQL) Service
- ssh
  Secure Shell Protocol
- submission
  Email message submission (SMTP)
- sunrpc
  Open Network Computing Remote Procedure Call (ONC RPC), also Sun RPC
- svcloc
  Service Location Protocol (SLP)
- syslog
  Syslog (UDP) and Remote Shell (TCP)
- systat
  Active Users (systat service)
- tacacs
  TACACS Login Host protocol
- talk
  Talk
- tcpmux
  TCP Port Service Multiplexer (TCPMUX)
- tcpnethaspsrv
  tcpnethaspsrv, Aladdin Knowledge Systems Hasp services

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- tftp

  Trivial File Transfer Protocol (TFTP)
- time

  Time Protocol
- timed

  Timeserver
- ups

  Uninterruptible power supply (UPS)
- xdmcp

  X Display Manager Control Protocol (XDMCP)
- xns-ch

  Xerox Network Systems (XNS) Clearinghouse (Name Server)
- xns-mail

  Xerox Network Systems (XNS) Mail
- xns-time

  Xerox Network Systems (XNS) Time Protocol
- z3950

  ANSI Z39.50

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcp-flags *string*

Description A logical expression using the &, | and ! logical operators and the TCP flag names: rst, syn and ack.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* match transport tcp-flags *string*

Tree tcp-flags

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tcam-entries

Description Enter the tcam-entries context

Information about the TCAM entries used to implement the ACL entry

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries

Tree tcam-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex complex-identifier *string*

Description List of forwarding complexes in the system

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*

Tree forwarding-complex

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

complex-identifier *string*

Description A forwarding complex in the format (slot-number,complex-number).

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string*

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to ingress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then input-total=2. If the entry is not applied to ingress traffic on any subinterfaces of this complex then input-total=0.
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* input-total *number*
Tree	input-total
Configurable	False
Platforms	Supported on all platforms

output-total *number*

Description	The number of TCAM entries required to implement this entry on all subinterfaces of this complex where the filter is applied to egress traffic. For example, if a single-instance of the entry takes 2 TCAM entries and the filter is an output-only subinterface-specific filter and the filter is applied to 5 subinterfaces on output and to 5 subinterfaces on input then output-total= 10. If the entry is not applied to egress traffic on any subinterfaces of this complex then output-total=0.
Context	qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* output-total *number*
Tree	output-total
Configurable	False
Platforms	Supported on all platforms

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single-instance *number*

Description The number of TCAM entries required to implement this entry if it is applied to only one subinterface and one traffic direction specific to this slot.

This is non-zero even if the filter is not applied to any subinterfaces of this complex. It captures the effect of TCAM entry expansion to deal with L4 port or VLAN ranges, for example.

Context qos classifiers multifield-classifier name *string* entry sequence-id *number* tcam-entries forwarding-complex complex-identifier *string* single-instance *number*

Tree single-instance

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Type of the QoS multifield-classifier

Context qos classifiers multifield-classifier name *string* type *keyword*

Tree type

Options

- ipv4

  Multifield-classifier using ipv4-based matching criteria

- ipv6

  Multifield-classifier using ipv6-based matching criteria

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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static-mpls-lsp-egress *reference*

Description	MPLS traffic-class classification policy for static MPLS LSP egress This policy applies to all ingress MPLS packets that match an ILM entry with a pop-xconnect-unicast or pop-xconnect-multicast operation. These ILM types are exclusively created by static MPLS LSPs.
Context	qos classifiers static-mpls-lsp-egress *reference*
Tree	static-mpls-lsp-egress
Reference	qos classifiers mpls-traffic-class-policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vxlan-default *reference*

Description	Reference to the name of a DSCP mapping policy that applies to terminating VXLAN packets
Context	qos classifiers vxlan-default *reference*
Tree	vxlan-default
Reference	qos classifiers dscp-policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

explicit-congestion-notification

Description	Enable the explicit-congestion-notification context
Context	qos explicit-congestion-notification
Tree	explicit-congestion-notification
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecn-dscp-policy *reference*

Description Reference to the DSCP rewrite policy to use when DSCP rewrite is required as a side effect of ECN remarking.

This is required configuration in order to globally enable ECN on J2 platforms

Context qos explicit-congestion-notification ecn-dscp-policy *reference*

Tree ecn-dscp-policy

Reference qos rewrite-rules dscp-policy name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-classes

Description Enter the forwarding-classes context

Enclosing container for list of user-defined forwarding class names

Context qos forwarding-classes

Tree forwarding-classes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class name *string*

Description Enter the forwarding-class list instance

Context qos forwarding-classes forwarding-class name *string*

Tree forwarding-class

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description User-defined name of the forwarding class

The following forwarding-class names are the system-reserved default FC names on 7250 IXR systems: fc0 fc1 fc2 fc3 fc4 fc5 fc6 fc7

In addition to fc0-fc7, the following forwarding-class names are also system-reserved default FC names on FPcx based platforms fc8 fc9 fc10 fc11 fc12 fc13 fc14 fc15

Context qos forwarding-classes forwarding-class name *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output

Description Enter the output context

Context qos forwarding-classes forwarding-class name *string* output

Tree output

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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multicast-queue *reference*

Description	Output queue for multicast packets within this forwarding class
Context	qos forwarding-classes forwarding-class name *string* output multicast-queue *reference*
Tree	multicast-queue
Reference	qos queues queue name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

unicast-queue *reference*

Description	Output queue for unicast packets within this forwarding class For the system-reserved default forwarding classes: fc0 -> unicast-queue = unicast-queue0 fc1 -> unicast-queue = unicast-queue1 fc2 -> unicast-queue = unicast-queue2 fc3 -> unicast-queue = unicast-queue3 fc4 -> unicast-queue = unicast-queue4 fc5 -> unicast-queue = unicast-queue5 fc6 -> unicast-queue = unicast-queue6 fc7 -> unicast-queue = unicast-queue7
Context	qos forwarding-classes forwarding-class name *string* output unicast-queue *reference*
Tree	unicast-queue
Reference	qos queues queue name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input-class-map name *string*

Description	Enter the input-class-map list instance
Context	qos input-class-map name *string*

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Tree	input-class-map
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

name *string*

Description	User defined input-class-map name
Context	qos input-class-map name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class name *reference*

Description	Enter the forwarding-class list instance
Context	qos input-class-map name *string* forwarding-class name *reference*
Tree	forwarding-class
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *reference*

Description	The forwarding class
Context	qos input-class-map name *string* forwarding-class name *reference*
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policers

Description	Enter the policers context Container containing the assignment of the policers to respective forwarding types
Context	qos input-class-map name *string* forwarding-class name *reference* policers
Tree	policers
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

broadcast-policer *reference*

Description	Policer for the broadcast traffic
Context	qos input-class-map name *string* forwarding-class name *reference* policers broadcast-policer *reference*
Tree	broadcast-policer
Reference	qos policer-policies policer-policy name *string* policer policer-id *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-policer *reference*

Description	Policer for the multicast traffic

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Context	qos input-class-map name *string* forwarding-class name *reference* policers multicast-policer *reference*
Tree	multicast-policer
Reference	qos policer-policies policer-policy name *string* policer policer-id *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-policer *reference*

Description	Policer for the unicast traffic
Context	qos input-class-map name *string* forwarding-class name *reference* policers unicast-policer *reference*
Tree	unicast-policer
Reference	qos policer-policies policer-policy name *string* policer policer-id *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-unicast-policer *reference*

Description	Policer for the unknown-unicast traffic
Context	qos input-class-map name *string* forwarding-class name *reference* policers unknown-unicast-policer *reference*
Tree	unknown-unicast-policer
Reference	qos policer-policies policer-policy name *string* policer policer-id *number*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

interfaces

Description	Enter the interfaces context Interfaces and subinterfaces with QoS configuration and state
Context	qos interfaces
Tree	interfaces
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-id *string*

Description	List of interfaces and subinterfaces referenced by QoS policies
Context	qos interfaces interface interface-id *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16383

interface-id *string*

Description	Identifier for the interface or subinterface
Context	qos interfaces interface interface-id *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dcbx

Description	Enter the dcbx context Container defining DCBX related parameters and state information
Context	qos interfaces interface interface-id *string* dcbx

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Tree	dcbx
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enabling/disabling DCBX protocol on the interface
Context	qos interfaces interface interface-id *string* dcbx admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ets-tlv

Description	Enter the ets-tlv context Information about received and sent ETS TLVs
Context	qos interfaces interface interface-id *string* dcbx ets-tlv
Tree	ets-tlv
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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local-credit-based-shaper *number*

Description	Value of credit-based-shaper TLV sent to DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv local-credit-based-shaper *number*
Tree	local-credit-based-shaper
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-maximum-traffic-classes *number*

Description	Value of maximum-traffic-classes TLV sent to DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv local-maximum-traffic-classes *number*
Tree	local-maximum-traffic-classes
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority index *number*

Description	List of priorities
Context	qos interfaces interface interface-id *string* dcbx ets-tlv priority index *number*
Tree	priority
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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index *number*

Description	Enter the index context
Context	qos interfaces interface interface-id *string* dcbx ets-tlv priority index *number*
Range	0 to 7
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-priority-assignment *number*

Description	Priority Assignment value for a given priority sent to DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv priority index *number* local-priority-assignment *number*
Tree	local-priority-assignment
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-priority-assignment-configuration *number*

Description	Configured Priority Assignment value for a given priority received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv priority index *number* remote-priority-assignment-configuration *number*
Tree	remote-priority-assignment-configuration
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-priority-assignment-recommendation *number*

Description	Recommended Priority Assignment value for a given priority received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv priority index *number* remote-priority-assignment-recommendation *number*
Tree	remote-priority-assignment-recommendation
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-credit-based-shaper *number*

Description	Value of credit-based-shaper TLV received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv remote-credit-based-shaper *number*
Tree	remote-credit-based-shaper
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-maximum-traffic-classes *number*

Description	Value of maximum-traffic-classes TLV received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv remote-maximum-traffic-classes *number*
Tree	remote-maximum-traffic-classes
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3,

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7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class traffic-class-index *number*

Description	List of traffic-classes
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number*
Tree	traffic-class
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class-index *number*

Description	Enter the traffic-class-index context
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number*
Range	0 to 7
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-traffic-class-bandwidth-assignment *number*

Description	Bandwidth assignment for a given traffic-class sent to DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* local-traffic-class-bandwidth-assignment *number*
Tree	local-traffic-class-bandwidth-assignment
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-

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gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-tsa-value *number*

Description	TSA for a given traffic-class sent to DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* local-tsa-value *number*
Tree	local-tsa-value
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-traffic-class-bandwidth-assignment-configuration *number*

Description	Configured Bandwidth assignment for a given traffic-class received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* remote-traffic-class-bandwidth-assignment-configuration *number*
Tree	remote-traffic-class-bandwidth-assignment-configuration
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-traffic-class-bandwidth-assignment-recommendation *number*

Description	Recommended Bandwidth assignment for a given traffic-class received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* remote-traffic-class-bandwidth-assignment-recommendation *number*
Tree	remote-traffic-class-bandwidth-assignment-recommendation

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Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-tsa-value-configuration *number*

Description	Configured TSA for a given traffic-class received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* remote-tsa-value-configuration *number*
Tree	remote-tsa-value-configuration
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-tsa-value-recommendation *number*

Description	Recommended TSA for a given traffic-class received from DCBX peer
Context	qos interfaces interface interface-id *string* dcbx ets-tlv traffic-class traffic-class-index *number* remote-tsa-value-recommendation *number*
Tree	remote-tsa-value-recommendation
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Operational state for DCBX on the interface
Context	qos interfaces interface interface-id *string* dcbx oper-state *keyword*
Tree	oper-state

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Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable

False

Platforms

7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-reason *keyword*

Description Indicates the reason for DCBX oper-state down

Context qos interfaces interface interface-id *string* dcbx oper-state-reason *keyword*

Tree oper-state-reason

Options

- lldp-oper-state-down
- multiple-lldp-peers
- remote-dcbx-down
- dcbx-admin-disabled

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-priority index *number*

Description Enter the pfc-priority list instance

Context qos interfaces interface interface-id *string* dcbx pfc-priority index *number*

Tree pfc-priority

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description PFC-priority index

Context qos interfaces interface interface-id *string* dcbx pfc-priority index *number*

Range 0 to 7

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description	Indicates the PFC state on receiving side of the interface
Context	qos interfaces interface interface-id *string* dcbx pfc-priority index *number* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded Component or process is in a degraded state • warm-reboot

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Component or process is currently warm rebooting

This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-state *keyword*

Description Enter the remote-state context

Context qos interfaces interface interface-id *string* dcbx pfc-priority index *number* remote-state *keyword*

Tree remote-state

Options

- remote-down
- remote-up

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input

Description Enter the input context

Top-level container for QoS configuration and state relating to ingress traffic on the subinterface

Context qos interfaces interface interface-id *string* input

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Tree	input
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

classifiers

Description	Classifiers to be applied to the subinterface
Context	qos interfaces interface interface-id *string* input classifiers
Tree	classifiers
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

classifier type *keyword*

Description	A list of classifiers that should be applied to the interface
Context	qos interfaces interface interface-id *string* input classifiers classifier type *keyword*
Tree	classifier
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Type of packets matched by the classifier.

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Context qos interfaces interface interface-id *string* input classifiers classifier type *keyword*

Options

- ipv4

  Classifier matches IPv4 Unicast packets.

- ipv6

  Classifier matches IPv6 Unicast packets.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Reference to the classifier to be applied to ingress traffic on the interface

Context qos interfaces interface interface-id *string* input classifiers classifier type *keyword* name *reference*

Tree name

Reference qos classifiers multifield-classifier name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default

Description Enable the default context

Context qos interfaces interface interface-id *string* input classifiers default

Tree default

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description The default drop-probability for packets arriving on this subinterface that do not match any classification rule

Context qos interfaces interface interface-id *string* input classifiers default drop-probability *keyword*

Tree drop-probability

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description The forwarding class

Context qos interfaces interface interface-id *string* input classifiers default forwarding-class *reference*

Tree forwarding-class

Reference qos forwarding-classes forwarding-class name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p-policy *reference*

Description	Reference to the name of a dot1p mapping policy
Context	qos interfaces interface interface-id *string* input classifiers dot1p-policy *reference*
Tree	dot1p-policy
Reference	qos classifiers dot1p-policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-policy *reference*

Description	Reference to the name of a DSCP mapping policy that applies to both IPv4 and IPv6 traffic
Context	qos interfaces interface interface-id *string* input classifiers dscp-policy *reference*
Tree	dscp-policy
Reference	qos classifiers dscp-policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ipv4-dscp-policy *reference*

Description	Reference to the name of a DSCP mapping policy that applies only to IPv4 traffic
Context	qos interfaces interface interface-id *string* input classifiers ipv4-dscp-policy *reference*
Tree	ipv4-dscp-policy

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Reference	qos classifiers dscp-policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-dscp-policy *reference*

Description	Reference to the name of a DSCP mapping policy that applies only to IPv6 traffic
Context	qos interfaces interface interface-id *string* input classifiers ipv6-dscp-policy *reference*
Tree	ipv6-dscp-policy
Reference	qos classifiers dscp-policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-traffic-class-policy *reference*

Description	Reference to the name of an MPLS traffic-class mapping policy
Context	qos interfaces interface interface-id *string* input classifiers mpls-traffic-class-policy *reference*
Tree	mpls-traffic-class-policy
Reference	qos classifiers mpls-traffic-class-policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input-class-map *reference*

Description	Reference to the name of input-class-map that applies to subinterface
Context	qos interfaces interface interface-id *string* input input-class-map *reference*
Tree	input-class-map
Reference	qos input-class-map name *string*

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-buffer-allocation-profile *reference*

Description	Buffer-allocation-profile for pfc queues
Context	qos interfaces interface interface-id *string* input pfc-buffer-allocation-profile *reference*
Tree	pfc-buffer-allocation-profile
Reference	qos buffer-management buffer-allocation-profile name *string*
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-policies

Description	Enter the policer-policies context
Context	qos interfaces interface interface-id *string* input policer-policies
Tree	policer-policies
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-policer-statistics *boolean*

Description	Enables policer statistics
Context	qos interfaces interface interface-id *string* input policer-policies enable-policer-statistics *boolean*
Tree	enable-policer-statistics
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-policer *reference*

Description	Assigns a global-policer to the subinterface. The assign policer cannot be associated with ahy matching criteria
Context	qos interfaces interface interface-id *string* input policer-policies interface-policer *reference*
Tree	interface-policer
Reference	qos policers policer name *string*
Configurable	True
Platforms	qos-policers-subtree and qos-global-policers

policer policer-id *reference*

Description	Enter the policer list instance
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference*
Tree	policer
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-id *reference*

Description	Enter the policer-id context
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference*
Reference	qos policer-policies policer-policy name *string* policer policer-id *number*
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-burst-size *number*

Description	The actual/operational maximum CIR bucket depth in bytes as it is programmed into hardware
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* committed-burst-size *number*
Tree	committed-burst-size

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Units	bytes
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-rate *number*

Description	The actual/operational committed information rate (CIR) of the policer as it is programmed into hardware
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* committed-rate *number*
Tree	committed-rate
Units	kbps
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-burst-size *number*

Description	The actual/operational maximum EIR bucket depth in bytes as it is programmed into hardware
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* excess-burst-size *number*
Tree	excess-burst-size
Units	bytes
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-rate *number*

Description	The actual/operational excess information rate (EIR) of the policer as it is programmed into hardware
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* excess-rate *number*
Tree	excess-rate
Units	kbps
Configurable	False

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class name *reference*

Description	Enter the forwarding-class list instance
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* forwarding-class name *reference*
Tree	forwarding-class
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	The forwarding class
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* forwarding-class name *reference*
Reference	qos forwarding-classes forwarding-class name
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-type *keyword*

Description	The list of forwarding types, belonging to this forwarding-class, to match to the policer
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* forwarding-class name *reference* forwarding-type *keyword*
Tree	forwarding-type
Options	• unicast A packet is 'unicast' if the destination address is unicast and it matches an entry in the FIB • unknown-unicast A packet is 'unknown-unicast' if the destination address is unicast but it doesn't match any entry in the FIB and is therefore conventionally flooded • multicast A packet is 'multicast' if the destination address is a multicast address

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On TD3 systems this includes multicast packets with a known destination/group address and multicast packets with an unknown destination/group address. On TD4 systems this only includes known multicast packets

- unknown-multicast

  Multicast packets with an unknown destination/group address

- broadcast

  A packet is 'broadcast' if the destination address is a broadcast address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-statistics

Description Enter the policer-statistics context

The statistics per subinterface policers

Context qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics

Tree policer-statistics

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-statistics

Description Enter the aggregate-statistics context

The aggregate statistics per subinterface policers

Context qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics

Tree aggregate-statistics

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-in-octets *number*

Description The number of octets in packets that were considered as Green by the policer and their input profile was 'in'.

Not available in minimal statistics-mode

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Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-in-octets *number*
Tree	accepted-in-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-in-packets *number*

Description	The number of packets that were considered as Green by the policer and their input profile was 'in'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-in-packets *number*
Tree	accepted-in-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-inplus-octets *number*

Description	The number of octets in packets that were considered as Green by the policer and their input profile was 'inplus'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-inplus-octets *number*
Tree	accepted-inplus-octets
Default	0
Configurable	False
Platforms	qos-policer-profile and not qos-subinterface-policing

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accepted-inplus-packets *number*

Description	The number of packets that were considered as Green by the policer and their input profile was 'inplus'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-inplus-packets *number*
Tree	accepted-inplus-packets
Default	0
Configurable	False
Platforms	qos-policer-profile and not qos-subinterface-policing

accepted-out-octets *number*

Description	The number of octets in packets that were considered Yellow having input profile 'inplus' or 'in', and packets that were considered Green and Yellow having input profile 'out'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-out-octets *number*
Tree	accepted-out-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-out-packets *number*

Description	The number of packets that were considered Yellow having input profile 'inplus' or 'in', and packets that were considered Green and Yellow having input profile 'out'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics accepted-out-packets *number*
Tree	accepted-out-packets
Default	0

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Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-octets *number*

Description	The number of octets in packets that were accepted having input profile 'exceed'. Available in both statistics-modes
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics exceed-octets *number*
Tree	exceed-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-packets *number*

Description	The number of packets that were accepted having input profile 'exceed'. Available in boths statistics-modes
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics exceed-packets *number*
Tree	exceed-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the statistics associated with this policer were cleared
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics aggregate-statistics last-clear *string*
Tree	last-clear

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

per-lag-member-statistics

Description	Enter the per-lag-member-statistics context The subinterface policer stats per member-fp
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics
Tree	per-lag-member-statistics
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

linecard slot *number*

Description	Line-card within the system
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number*
Tree	linecard
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description	Numeric identifier for the linecard
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number*
Range	1 to 18
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-complex name *keyword*

Description	Forwarding complex on the card
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword*
Tree	forwarding-complex
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *keyword*

Description	Forwarding-complex name
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword*
Options	• 0 • 1
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-in-octets *number*

Description	The number of octets in packets that were considered as Green by the policer and their input profile was 'in'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-in-octets *number*
Tree	accepted-in-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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accepted-in-packets *number*

Description	The number of packets that were considered as Green by the policer and their input profile was 'in'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-in-packets *number*
Tree	accepted-in-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-inplus-octets *number*

Description	The number of octets in packets that were considered as Green by the policer and their input profile was 'inplus'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-inplus-octets *number*
Tree	accepted-inplus-octets
Default	0
Configurable	False
Platforms	qos-policer-profile and not qos-subinterface-policing

accepted-inplus-packets *number*

Description	The number of packets that were considered as Green by the policer and their input profile was 'inplus'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-inplus-packets *number*
Tree	accepted-inplus-packets
Default	0
Configurable	False

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Platforms	qos-policer-profile and not qos-subinterface-policing

accepted-out-octets *number*

Description	The number of octets in packets that were considered Yellow having input profile 'inplus' or 'in', and packets that were considered Green and Yellow having input profile 'out'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-out-octets *number*
Tree	accepted-out-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

accepted-out-packets *number*

Description	The number of packets that were considered Yellow having input profile 'inplus' or 'in', and packets that were considered Green and Yellow having input profile 'out'. Not available in minimal statistics-mode
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* accepted-out-packets *number*
Tree	accepted-out-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-octets *number*

Description	The number of octets in packets that were accepted having input profile 'exceed'. Available in both statistics-modes

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Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* exceed-octets *number*
Tree	exceed-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-packets *number*

Description	The number of packets that were accepted having input profile 'exceed'. Available in boths statistics-modes
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* exceed-packets *number*
Tree	exceed-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the statistics associated with this policer were cleared
Context	qos interfaces interface interface-id *string* input policer-policies policer policer-id *reference* policer-statistics per-lag-member-statistics linecard slot *number* forwarding-complex name *keyword* last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-policy *reference*

Description	Policer-policy assigned to this subinterface

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Context	qos interfaces interface interface-id *string* input policer-policies policer-policy *reference*
Tree	policer-policy
Reference	qos policer-policies policer-policy name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-policy-allocation-pending

Description	Enter the policer-policy-allocation-pending context Details of pending policer-policy resource allocation
Context	qos interfaces interface interface-id *string* input policer-policies policer-policy-allocation-pending
Tree	policer-policy-allocation-pending
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer *string*

Description	Complexes with pending HW policer resource allocation. Each entry identifies a complex in the format forwarding-complex-<slot>/<complex>.
Context	qos interfaces interface interface-id *string* input policer-policies policer-policy-allocation-pending policer *string*
Tree	policer
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-statistics *string*

Description	Complexes with pending HW policer statistics resource allocation. Each entry identifies a complex in the format forwarding-complex-<slot>/<complex>.
Context	qos interfaces interface interface-id *string* input policer-policies policer-policy-allocation-pending policer-statistics *string*

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Tree	policer-statistics
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-templates

Description	acl policers
Context	qos interfaces interface interface-id *string* input policer-templates
Tree	policer-templates
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer sequence-id *number*

Description	The list of policer instances belonging to the template definition.
Context	qos interfaces interface interface-id *string* input policer-templates policer sequence-id *number*
Tree	policer
Configurable	False
Platforms	Supported on all platforms

sequence-id *number*

Description	Policer sequence-id
Context	qos interfaces interface interface-id *string* input policer-templates policer sequence-id *number*
Range	1 to 65535
Configurable	False
Platforms	Supported on all platforms

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policer-template *reference*

Description	The name of the policer template applied to input traffic on the subinterface
Context	qos interfaces interface interface-id *string* input policer-templates policer-template *reference*
Tree	policer-template
Reference	qos policer-templates policer-template name *string*
Configurable	True
Platforms	Supported on all platforms

interface-ref

Description	Enter the interface-ref context Reference to an interface or subinterface
Context	qos interfaces interface interface-id *string* interface-ref
Tree	interface-ref
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description	Reference to a base interface, for example a port or LAG
Context	qos interfaces interface interface-id *string* interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subinterface *reference*

Description Reference to a subinterface

This requires the base interface to be specified using the interface leaf in this container

Context qos interfaces interface interface-id *string* interface-ref subinterface *reference*

Tree subinterface

Reference interface name *string* subinterface index *number*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output

Description Enter the output context

Top-level container for QoS configuration and state relating to egress traffic on the interface or subinterface

Context qos interfaces interface interface-id *string* output

Tree output

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

buffer-allocation-profile *reference*

Description Buffer-allocation-profile for interface output queues

Context qos interfaces interface interface-id *string* output buffer-allocation-profile *reference*

Tree buffer-allocation-profile

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Reference	qos buffer-management buffer-allocation-profile name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-bundle-pending *boolean*

Description	True when the LAG bundle-id for this LAG sub-interface has not yet been allocated. A LAG bundle-id is a precondition for allocating voq-set and voq-connector-set on a LAG sub-interface; while this leaf reads true, voq-set-pending will also be empty because the downstream voq-set allocation is intentionally not attempted. Only meaningful on LAG sub-interfaces with per-subinterface queueing QoS configured; reads false on all other sub-interfaces.
Context	qos interfaces interface interface-id *string* output lag-bundle-pending *boolean*
Tree	lag-bundle-pending
Default	false
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

lag-system-port-pending *reference*

Description	List of member interfaces, related to this LAG sub-interface, where the LAG system-port resource has not yet been allocated. A LAG system-port is a precondition for allocating voq-set and voq-connector-set on a LAG sub-interface member; while a member appears here it will not appear in voq-set-pending because the downstream voq-set allocation is intentionally not attempted.
Context	qos interfaces interface interface-id *string* output lag-system-port-pending *reference*
Tree	lag-system-port-pending
Reference	interface name *string*
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

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output-class-map-pending *reference*

Description	List of interfaces, related to this subinterface, where the configured output-class-map is not yet operational
Context	qos interfaces interface interface-id *string* output output-class-map-pending *reference*
Tree	output-class-map-pending
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queues

Description	Enter the queues context Container for a list of queues that are instantiated on an interface
Context	qos interfaces interface interface-id *string* output queues
Tree	queues
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue queue-name *reference*

Description	List of queues
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference*
Tree	queue
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *reference*

Description	The queue name
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference*
Reference	qos queues queue name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-queue-management

Description	Enter the active-queue-management context
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management
Tree	active-queue-management
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Description	List of WRED slopes

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Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Tree wred-slope

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-type *keyword*

Description The traffic type to which the WRED slope applies

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Options

- tcp

  Refers to IPv4/IPv6 packets with a protocol/next-header indicating a value of 6

- non-tcp

  Refers to all packets that are not IPv4/IPv6 packets with a protocol/next-header indicating a value of 6

- all

  Refers to all traffic, whether it is TCP or non-TCP

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description The drop probability to which the WRED slope applies

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Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red

- all

  All traffic, consisting of traffic marked low, medium and high drop-probability

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-ecn *boolean*

Description Indicates that packets should be marked with ecn-bit when the result of wred-slope would discard the packet. It is mutually exclusive with 'drop' flag

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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drop *boolean*

Description Indicates that packets will be dropped based on WRED slope policy

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* drop *boolean*

Tree drop

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-probability *number*

Description The maximum probability of dropping a packet (at or above the max-threshold).

On 7250 IXR-6/10 there can be a significant difference between the configured value and the operational value

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* max-probability *number*

Tree max-probability

Range 0 to 100

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-threshold-bytes *number*

Description The queue depth in bytes that corresponds to the WRED maximum threshold parameter

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* max-threshold-bytes *number*
Tree	max-threshold-bytes
Units	bytes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

min-threshold-bytes *number*

Description	The queue depth in bytes that corresponds to the WRED mininum threshold parameter
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* active-queue-management wred-slope traffic-type *keyword* drop-probability *keyword* enable-ecn *boolean* min-threshold-bytes *number*
Tree	min-threshold-bytes
Units	bytes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *string*

Description	The list of forwarding classes that map to this queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* forwarding-class *string*
Tree	forwarding-class
Configurable	False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description Enter the queue-depth context

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth

Tree queue-depth

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

average-1 *number*

Description The average queue depth in the last 1 minutes using samples taken every polling-interval milliseconds

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth average-1 *number*

Tree average-1

Units bytes

Configurable False

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

average-15 *number*

Description The average queue depth in the last 15 minutes using samples taken every polling-interval milliseconds

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth average-15 *number*

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Tree	average-15
Units	bytes
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

average-5 *number*

Description	The average queue depth in the last 5 minutes using samples taken every polling-interval milliseconds
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth average-5 *number*
Tree	average-5
Units	bytes
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

committed-burst-size *number*

Description	Committed queue length in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth committed-burst-size *number*
Tree	committed-burst-size
Units	bytes
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-threshold-bytes *number*

Description	The operational hardware value of the high threshold in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth high-threshold-bytes *number*
Tree	high-threshold-bytes
Units	bytes
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-watermark-1 *number*

Description	The highest queue depth in the last 1 minutes using samples taken every polling-interval milliseconds
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth high-watermark-1 *number*
Tree	high-watermark-1
Units	bytes
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

high-watermark-15 *number*

Description	The highest queue depth in the last 15 minutes using samples taken every polling-interval milliseconds
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth high-watermark-15 *number*
Tree	high-watermark-15
Units	bytes
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

high-watermark-5 *number*

Description	The highest queue depth in the last 5 minutes using samples taken every polling-interval milliseconds
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth high-watermark-5 *number*
Tree	high-watermark-5
Units	bytes
Configurable	False

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Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

last-high-threshold-time *string*

Description	The last time the queue depth exceeded the high-threshold in a rising direction
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth last-high-threshold-time *string*
Tree	last-high-threshold-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-burst-size *number*

Description	Maximum queue depth in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth maximum-burst-size *number*
Tree	maximum-burst-size
Units	bytes
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

missed-polling-intervals *number*

Description	The number of samples that were expected, but did not arrive fast enough to be included in the average and high-watermark calculations
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-depth missed-polling-intervals *number*

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Tree	missed-polling-intervals
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

queue-management-profile *reference*

Description	The queue management profile that is to be used for the queue on the interface. For example, the system may use a profile which specifies that WRED curves are used for setting an ECN mark in the IP header instead of dropping a packet in order to signal impending congestion and for determining when there is sufficient congestion to tail drop packets
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-management-profile *reference*
Tree	queue-management-profile
Reference	qos buffer-management queue-management-profile name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-statistics

Description	Enter the queue-statistics context
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics
Tree	queue-statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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aggregate-statistics

Description Enter the aggregate-statistics context

Aggregate queue statistics per interface-queue or subinterface-queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics

Tree aggregate-statistics

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecn-marked-octets *number*

Description Number of octets in packets in which the ECN codepoint was changed from ECT to CE

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics ecn-marked-octets *number*

Tree ecn-marked-octets

Default 0

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecn-marked-packets *number*

Description Number of packets in which the ECN codepoint was changed from ECT to CE

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics ecn-marked-packets *number*

Tree ecn-marked-packets

Default 0

Configurable False

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egq-dropped-octets *number*

Description	Number of octets dropped by the queue at egress
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics egq-dropped-octets *number*
Tree	egq-dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egq-dropped-packets *number*

Description	Number of packets dropped by the queue at egress
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics egq-dropped-packets *number*
Tree	egq-dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-profile

Description	Enter the exceed-profile context Stats for packets marked with Exceed profile transmitted by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics exceed-profile
Tree	exceed-profile
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics exceed-profile dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics exceed-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics exceed-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics exceed-profile transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-plus-profile

Description	Enter the in-plus-profile context Stats for packets marked with In-Plus profile transmitted by the queue

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-plus-profile
Tree	in-plus-profile
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-plus-profile dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-plus-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description Number of octets transmitted by the queue, including transit traffic and locally originated traffic

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-plus-profile transmitted-octets *number*

Tree transmitted-octets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description Number of packets transmitted by the queue, including transit traffic and locally originated traffic

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-plus-profile transmitted-packets *number*

Tree transmitted-packets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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in-profile

Description Enter the in-profile context

Stats for packets marked with In profile transmitted by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-profile

Tree in-profile

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description Number of octets transmitted by the queue dropped by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-profile dropped-octets *number*

Tree dropped-octets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description Number of packets transmitted by the queue dropped by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-profile dropped-packets *number*

Tree dropped-packets

Default 0

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics in-profile transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the statistics associated with this queue were cleared

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-profile

Description Enter the out-profile context

Stats for packets marked with Out profile transmitted by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics out-profile

Tree out-profile

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description Number of octets transmitted by the queue dropped by the queue

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics out-profile dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics out-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics out-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description Number of packets transmitted by the queue, including transit traffic and locally originated traffic

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics out-profile transmitted-packets *number*

Tree transmitted-packets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description Enter the queue-depth context

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics queue-depth

Tree queue-depth

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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high-threshold-bytes *number*

Description	The operational hardware value of the high threshold in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics queue-depth high-threshold-bytes *number*
Tree	high-threshold-bytes
Units	bytes
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-high-threshold-time *string*

Description	The last time the queue depth exceeded the high-threshold in a rising direction
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics queue-depth last-high-threshold-time *string*
Tree	last-high-threshold-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trimmed-packets *number*

Description	Number of packets which were trimmed
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics trimmed-packets *number*
Tree	trimmed-packets

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Default	0
Configurable	False
Platforms	7220 IXR-H6-64

virtual-output-queue slot *number*

Description	List of virtual output queues that can send traffic to this egress queue. The list always has one entry for each IMM slot in the chassis, even if one or more slots are empty
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number*
Tree	virtual-output-queue
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description	The slot identifier for the virtual output queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number*
Range	1 to 18
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-drop-probability

Description	Enter the high-drop-probability context The unicast statistics unicast packets transmitted from the VOQ to the egress queue that were classified as high drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* high-drop-probability
Tree	high-drop-probability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* high-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* high-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* high-drop-probability transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* high-drop-probability transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-drop-probability

Description	Enter the low-drop-probability context The unicast statistics from the VOQ to the egress queue that were classified as low drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* low-drop-probability
Tree	low-drop-probability

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* low-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* low-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* low-drop-probability transmitted-octets *number*

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Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* low-drop-probability transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

medium-drop-probability

Description	Enter the medium-drop-probability context The unicast statistics from the VOQ to the egress queue that were classified as medium drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* medium-drop-probability
Tree	medium-drop-probability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* medium-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* medium-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* medium-drop-probability transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description Number of packets transmitted by the queue, including transit traffic and locally originated traffic

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* medium-drop-probability transmitted-packets *number*

Tree transmitted-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description Enter the queue-depth context

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* queue-depth

Tree queue-depth

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-threshold-bytes *number*

Description The operational hardware value of the high threshold in bytes

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* queue-depth high-threshold-bytes *number*

Tree high-threshold-bytes

Units bytes

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-high-threshold-time *string*

Description	The last time the depth of either VOQ associated with this slot exceeded the high-threshold in a rising direction
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics aggregate-statistics virtual-output-queue slot *number* queue-depth last-high-threshold-time *string*
Tree	last-high-threshold-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

per-lag-member-statistics

Description	Enter the per-lag-member-statistics context Queue statistics per-LAG member. These statistics are relevant only for LAG
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics
Tree	per-lag-member-statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-interface member-interface-name *string*

Description	Enter the member-interface list instance

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string*
Tree	member-interface
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-interface-name *string*

Description	Enter the member-interface-name context
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecn-marked-octets *number*

Description	Number of octets in packets in which the ECN codepoint was changed from ECT to CE
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* ecn-marked-octets *number*
Tree	ecn-marked-octets
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ecn-marked-packets *number*

Description	Number of packets in which the ECN codepoint was changed from ECT to CE
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* ecn-marked-packets *number*
Tree	ecn-marked-packets
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egq-dropped-octets *number*

Description	Number of octets dropped by the queue at egress
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* egq-dropped-octets *number*
Tree	egq-dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egq-dropped-packets *number*

Description	Number of packets dropped by the queue at egress
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* egq-dropped-packets *number*
Tree	egq-dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-profile

Description Enter the exceed-profile context

Stats for packets marked with Exceed profile transmitted by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* exceed-profile

Tree exceed-profile

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description Number of octets transmitted by the queue dropped by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* exceed-profile dropped-octets *number*

Tree dropped-octets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description Number of packets transmitted by the queue dropped by the queue

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* exceed-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* exceed-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* exceed-profile transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-plus-profile

Description Enter the in-plus-profile context

Stats for packets marked with In-Plus profile transmitted by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-plus-profile

Tree in-plus-profile

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description Number of octets transmitted by the queue dropped by the queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-plus-profile dropped-octets *number*

Tree dropped-octets

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-plus-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-plus-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-plus-profile transmitted-packets *number*

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Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-profile

Description	Enter the in-profile context Stats for packets marked with In profile transmitted by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-profile
Tree	in-profile
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-profile dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic

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Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* in-profile transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-profile

Description	Enter the out-profile context Stats for packets marked with Out profile transmitted by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* out-profile
Tree	out-profile
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* out-profile dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* out-profile dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* out-profile transmitted-octets *number*
Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* out-profile transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description	Enter the queue-depth context
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* queue-depth
Tree	queue-depth
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-threshold-bytes *number*

Description	The operational hardware value of the high threshold in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* queue-depth high-threshold-bytes *number*
Tree	high-threshold-bytes

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Units	bytes
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-high-threshold-time *string*

Description	The last time the queue depth exceeded the high-threshold in a rising direction
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* queue-depth last-high-threshold-time *string*
Tree	last-high-threshold-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trimmed-packets *number*

Description	Number of packets which were trimmed
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* trimmed-packets *number*
Tree	trimmed-packets
Default	0
Configurable	False
Platforms	7220 IXR-H6-64

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virtual-output-queue slot *number*

Description List of virtual output queues that can send traffic to this egress queue. The list always has one entry for each IMM slot in the chassis, even if one or more slots are empty

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number*

Tree virtual-output-queue

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description The slot identifier for the virtual output queue

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number*

Range 1 to 18

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-drop-probability

Description Enter the high-drop-probability context

The unicast statistics unicast packets transmitted from the VOQ to the egress queue that were classified as high drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* high-drop-probability

Tree high-drop-probability

Configurable False

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* high-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* high-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface

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member-interface-name *string* virtual-output-queue slot *number* high-drop-probability transmitted-octets *number*

Tree transmitted-octets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description Number of packets transmitted by the queue, including transit traffic and locally originated traffic

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* high-drop-probability transmitted-packets *number*

Tree transmitted-packets

Default 0

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

low-drop-probability

Description Enter the low-drop-probability context

The unicast statistics from the VOQ to the egress queue that were classified as low drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* low-drop-probability

Tree low-drop-probability

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* low-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* low-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* low-drop-probability transmitted-octets *number*

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Tree	transmitted-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* low-drop-probability transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

medium-drop-probability

Description	Enter the medium-drop-probability context The unicast statistics from the VOQ to the egress queue that were classified as medium drop-probability. This reads 0 when the IMM associated with the VOQ is not inserted and it resets to 0 whenever the IMM associated with the VOQ is removed
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* medium-drop-probability
Tree	medium-drop-probability
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dropped-octets *number*

Description	Number of octets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* medium-drop-probability dropped-octets *number*
Tree	dropped-octets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dropped-packets *number*

Description	Number of packets transmitted by the queue dropped by the queue
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* medium-drop-probability dropped-packets *number*
Tree	dropped-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-octets *number*

Description	Number of octets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* medium-drop-probability transmitted-octets *number*
Tree	transmitted-octets
Default	0

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Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transmitted-packets *number*

Description	Number of packets transmitted by the queue, including transit traffic and locally originated traffic
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* medium-drop-probability transmitted-packets *number*
Tree	transmitted-packets
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description	Enter the queue-depth context
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* queue-depth
Tree	queue-depth
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-threshold-bytes *number*

Description	The operational hardware value of the high threshold in bytes
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface

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member-interface-name *string* virtual-output-queue slot *number* queue-depth high-threshold-bytes *number*

Tree high-threshold-bytes

Units bytes

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-high-threshold-time *string*

Description The last time the depth of either VOQ associated with this slot exceeded the high-threshold in a rising direction

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* queue-statistics per-lag-member-statistics member-interface member-interface-name *string* virtual-output-queue slot *number* queue-depth last-high-threshold-time *string*

Tree last-high-threshold-time

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduling

Description Enter the scheduling context

Container for queue scheduling parameters

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling

Tree scheduling

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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committed-rate-bps *number*

Description	The actual/operational committed rate in bits per second
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling committed-rate-bps *number*
Tree	committed-rate-bps
Configurable	False
Platforms	Supported on 7250 IXR-X4

committed-rate-percent *number*

Description	The maximum percentage of port bandwidth that is available to the traffic in this queue during the CIR scheduling loop. The default is 0
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling committed-rate-percent *number*
Tree	committed-rate-percent
Range	0 to 100
Configurable	False
Platforms	Supported on 7250 IXR-X4

peak-rate-bps *number*

Description	The actual/operational peak rate in bits per second
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling peak-rate-bps *number*
Tree	peak-rate-bps
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peak-rate-percent *number*

Description	The maximum percentage of port bandwidth that is available to the traffic in this queue during the PIR scheduling loop. The default is 100
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling peak-rate-percent *number*
Tree	peak-rate-percent
Range	1 to 100
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority-level *number*

Description	The priority level for the queue when scheduled as part of strict scheduler
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling priority-level *number*
Tree	priority-level
Configurable	False
Platforms	Supported on 7250 IXR-X4

strict-priority *boolean*

Description	When set to true the queue is serviced as a strict priority queue, regardless of whether a weight is configured or its value. When set to false the queue is serviced using WRR, even if the queue does not have a configured weight; in this case the default weight value of 1 is used
Context	qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling strict-priority *boolean*
Tree	strict-priority
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description Configures the relative weight of a queue.

For DWRR, this is determined by the scheduler policy For Strict Priority the weight is as follows

J2: unicast-0..unicast-7 -> weight 9..16 multicast-0..multicast-7 -> weight 1..8

TD3 (D2/D3/D5): unicast-0..unicast-7 -> weight 1..8 multicast-0..multicast-7 -> weight 1..8

TH3: unicast-0 -> weight 2 unicast-1 -> weight 3 unicast-2 -> weight 5 unicast-3 -> weight 6 unicast-4 -> weight 8 unicast-5 -> weight 9 unicast-6 -> weight 11 unicast-7 -> weight 12 multicast-0 -> weight 1 multicast-1 -> weight 4 multicast-2 -> weight 7 multicast-3 -> weight 10

Context qos interfaces interface interface-id *string* output queues queue queue-name *reference* scheduling weight *number*

Tree weight

Range 1 to 255

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rewrite-rules

Description Enable the rewrite-rules context

Context qos interfaces interface interface-id *string* output rewrite-rules

Tree rewrite-rules

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p-policy *reference*

Description	Reference to the name of a dot1p rewrite policy
Context	qos interfaces interface interface-id *string* output rewrite-rules dot1p-policy *reference*
Tree	dot1p-policy
Reference	qos rewrite-rules dot1p-policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

dscp-policy *reference*

Description	Reference to the name of a DSCP rewrite-rule policy that applies to both IPv4 and IPv6 traffic
Context	qos interfaces interface interface-id *string* output rewrite-rules dscp-policy *reference*
Tree	dscp-policy
Reference	qos rewrite-rules dscp-policy name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ipv4-dscp-policy *reference*

Description	Reference to the name of a DSCP rewrite-rule policy that applies only to IPv4 traffic
Context	qos interfaces interface interface-id *string* output rewrite-rules ipv4-dscp-policy *reference*
Tree	ipv4-dscp-policy
Reference	qos rewrite-rules dscp-policy name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-

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6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-dscp-policy *reference*

Description Reference to the name of a DSCP rewrite-rule policy that applies only to IPv6 traffic

Context qos interfaces interface interface-id *string* output rewrite-rules ipv6-dscp-policy *reference*

Tree ipv6-dscp-policy

Reference qos rewrite-rules dscp-policy name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-traffic-class-policy *reference*

Description Reference to the name of an MPLS traffic-class rewrite-rule policy

Context qos interfaces interface interface-id *string* output rewrite-rules mpls-traffic-class-policy *reference*

Tree mpls-traffic-class-policy

Reference qos rewrite-rules mpls-traffic-class-policy name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduler

Description Enter the scheduler context

Output traffic scheduler options

Context qos interfaces interface interface-id *string* output scheduler

Tree scheduler

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduler-policy *reference*

Description The scheduler policy to be applied to traffic on this interface

Context qos interfaces interface interface-id *string* output scheduler scheduler-policy *reference*

Tree scheduler-policy

Reference qos scheduler-policies scheduler-policy name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

voq-interface name *string*

Description List of VOQ ingress traffic objects associated with output traffic on the interface

Context qos interfaces interface interface-id *string* output voq-interface name *string*

Tree voq-interface

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the VOQ ingress traffic object in the format 'voq-<x>-<y>-<z>' where <x> is the ingress slot identifier, <y> is the ingress forwarding-complex identifier, and <z> is the ingress core identifier

Context qos interfaces interface interface-id *string* output voq-interface name *string*

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue queue-name *reference*

Description	List of egress queues associated with the interface
Context	qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference*
Tree	queue
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *reference*

Description	The queue name
Context	qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference*
Reference	qos queues queue name *string*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth

Description	Enter the queue-depth context

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Container with the latest queue-depth information for a specific VOQ

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth

Tree queue-depth

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

congestion-event index *number*

Description List of the most recent congestion event(s) for this VOQ

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number*

Tree congestion-event

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

index *number*

Description Index representing the order of recorded congestion events for the VOQ

Index 0 is the most recent event, index 1 is the next most recent event, etc.

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description The time when VOQ congestion ended, determined by low-threshold conditions

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number* end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

high-watermark *number*

Description The highest queue-depth sample that was taken between the start-time and end-time

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number* high-watermark *number*

Tree high-watermark

Units bytes

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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start-time *string*

Description The time when the depth of the VOQ exceeded high-threshold-bytes in a rising direction

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number* start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description Current status of the congestion event

Context qos interfaces interface interface-id *string* output voq-interface name *string* queue queue-name *reference* queue-depth congestion-event index *number* status *keyword*

Tree status

Options

- no-information-available

  Polling could not be started on this VOQ because of resource limitations
- in-progress

  Polling has started on this VOQ and congestion has not ended yet
- done

  Polling has ended on this VOQ and congestion has subsided

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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voq-set-pending *reference*

Description	List of member interfaces, related to this subinterface, where the VoQ-set (voq-id or voq-connector-id) resource has not yet been allocated
Context	qos interfaces interface interface-id *string* output voq-set-pending *reference*
Tree	voq-set-pending
Reference	interface name *string*
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

voq-set-statistics-pending *reference*

Description	List of member interfaces, related to this subinterface, where the VoQ statistics resource (voq-stat-id) has not yet been allocated. Only populated when voq-statistics is enabled on the subinterface
Context	qos interfaces interface interface-id *string* output voq-set-statistics-pending *reference*
Tree	voq-set-statistics-pending
Reference	interface name *string*
Configurable	False
Platforms	Supported on 7250 IXR (excluding mixed chassis)

pfc

Description	Enter the pfc context Parameters and information related to PFC on the interface
Context	qos interfaces interface interface-id *string* pfc
Tree	pfc
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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deadlock-detection-timer *number*

Description	The actual value of deadlock-detection-timer
Context	qos interfaces interface interface-id *string* pfc deadlock-detection-timer *number*
Tree	deadlock-detection-timer
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-enable *boolean*

Description	Enables/disables reaction to received pfc-frames for a given interface
Context	qos interfaces interface interface-id *string* pfc pfc-enable *boolean*
Tree	pfc-enable
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-mapping-profile *reference*

Description	Assigns a pfc-mapping-profile to the interface. There is always default pfc-mapping-profile assigned named 'default'
Context	qos interfaces interface interface-id *string* pfc pfc-mapping-profile *reference*
Tree	pfc-mapping-profile
Reference	qos pfc-mapping-profile name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D,

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7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue pfc-queue-name *reference*

Description List of pfc-queues

Context qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference*

Tree pfc-queue

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue-name *reference*

Description The pfc-queue name

Context qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference*

Reference qos queues pfc-queue pfc-queue-name *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-pfc-buffer-used *number*

Description The peak value for pfc-buffer usage by pfc-queue

Context qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* peak-pfc-buffer-used *number*

Tree peak-pfc-buffer-used

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-buffer-used *number*

Description	The pfc-buffer usage by pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-buffer-used *number*
Tree	pfc-buffer-used
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-enable *boolean*

Description	Displays the actual state of the pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-enable *boolean*
Tree	pfc-enable
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-maximum-burst-size *number*

Description	Displays the actual maximum-burst-size of the pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-maximum-burst-size *number*
Tree	pfc-maximum-burst-size

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-maximum-pfc-reserved-share *number*

Description	Displays the actual maximum share the pfc-queue can take from pfc-reserved buffer configured per given forwarding-complex
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-maximum-pfc-reserved-share *number*
Tree	pfc-maximum-pfc-reserved-share
Units	bytes
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-off-threshold-bytes *number*

Description	Displays the actual off-threshold of the pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-off-threshold-bytes *number*
Tree	pfc-off-threshold-bytes
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-on-threshold-bytes *number*

Description	Displays the actual on-threshold of the pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-on-threshold-bytes *number*
Tree	pfc-on-threshold-bytes
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-reserved-buffer-used *number*

Description	The pfc-reserved-buffer usage by pfc-queue
Context	qos interfaces interface interface-id *string* pfc pfc-queue pfc-queue-name *reference* pfc-reserved-buffer-used *number*
Tree	pfc-reserved-buffer-used
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

source-pfc-mac *string*

Description	MAC address used as source-mac address used in generated pfc-pause-frames on the interface
Context	qos interfaces interface interface-id *string* pfc source-pfc-mac *string*
Tree	source-pfc-mac
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Statistics related to PFC functionality
Context	qos interfaces interface interface-id *string* pfc statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the statistics associated with this queue were cleared

Context qos interfaces interface interface-id *string* pfc statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-priority index *number*

Description Enter the pfc-priority list instance

Context qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number*

Tree pfc-priority

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description PFC-priority index

Context qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number*

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Range	0 to 7
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

deadlock-recovery-occurrences *number*

Description	Number of deadlock recovery events
Context	qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number* deadlock-recovery-occurrences *number*
Tree	deadlock-recovery-occurrences
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-pause-frames-generated *number*

Description	Number of pfc-pause-frames generated on the interface for a given pfc-priority
Context	qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number* pfc-pause-frames-generated *number*
Tree	pfc-pause-frames-generated
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pfc-pause-frames-received *number*

Description	Number of pfc-pause-frames received on the interface and given pfc-priority
Context	qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number* pfc-pause-frames-received *number*
Tree	pfc-pause-frames-received
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-transitions *number*

Description	Number of transitions PFC-ON --> PFC-OFF on the interface for a given pfc-priority
Context	qos interfaces interface interface-id *string* pfc statistics pfc-priority index *number* pfc-transitions *number*
Tree	pfc-transitions
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-packet-pfc-discards *number*

Description	Total number of packets discarded becuase pfc-buffer-allocation was depleted. Under normal condition this counter should not be incremented
Context	qos interfaces interface interface-id *string* pfc statistics total-packet-pfc-discards *number*
Tree	total-packet-pfc-discards
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D,

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7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-pfc-pause-frames-generated *number*

Description Total number of pfc-pause-frames generated on the interface

Context qos interfaces interface interface-id *string* pfc statistics total-pfc-pause-frames-generated *number*

Tree total-pfc-pause-frames-generated

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-pfc-pause-frames-received *number*

Description Total number of pfc-pause-frames received on the interface

Context qos interfaces interface interface-id *string* pfc statistics total-pfc-pause-frames-received *number*

Tree total-pfc-pause-frames-received

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

voq-statistics *boolean*

Description Enable or disable voq-stats at interface

Context qos interfaces interface interface-id *string* voq-statistics *boolean*

Tree voq-statistics

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

voq-statistics-allocation-status *keyword*

Description	Enable or disable voq-stats at interface
Context	qos interfaces interface interface-id *string* voq-statistics-allocation-status *keyword*
Tree	voq-statistics-allocation-status
Options	• complete • partial • none
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linecard slot *number*

Description	Container for QoS linecard configuration
Context	qos linecard slot *number*
Tree	linecard
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description	Numeric identifier for the linecard
Context	qos linecard slot *number*

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Range	1 to 18
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex name *keyword*

Description	List of forwarding complexes on the card
Context	qos linecard slot *number* forwarding-complex name *keyword*
Tree	forwarding-complex
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *keyword*

Description	Forwarding-complex name
Context	qos linecard slot *number* forwarding-complex name *keyword*
Options	• 0 • 1
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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input

Description Enter the input context

QoS input parmeters ar forwarding-complex level

Context qos linecard slot *number* forwarding-complex name *keyword* input

Tree input

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-buffer-reservation *number*

Description Percentage of the buffer reserved for accomodating incoming traffic while upstream node reacts to generated PFC-pause frames

Context qos linecard slot *number* forwarding-complex name *keyword* input pfc-buffer-reservation *number*

Tree pfc-buffer-reservation

Range 0 to 100

Default 1

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-reserved-buffer-size *number*

Description Displays the actual size of pfc-reserved buffer in bytes

Context qos linecard slot *number* forwarding-complex name *keyword* input pfc-reserved-buffer-size *number*

Tree pfc-reserved-buffer-size

Units bytes

Configurable False

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

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output

Description Enter the output context

QoS ouput parameters at forwarding-complex level

Context qos linecard slot *number* forwarding-complex name *keyword* output

Tree output

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output-class-map name *string*

Description Enter the output-class-map list instance

Context qos output-class-map name *string*

Tree output-class-map

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 64

name *string*

Description User defined output-class-map name

Context qos output-class-map name *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class name *reference*

Description Enter the forwarding-class list instance

Context qos output-class-map name *string* forwarding-class name *reference*

Tree forwarding-class

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description The forwarding class

Context qos output-class-map name *string* forwarding-class name *reference*

Reference qos forwarding-classes forwarding-class name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue

Description Enter the queue context

Container used to define whether local subinterface should be created or re-direction to remote queue at interface level should be used

Context qos output-class-map name *string* forwarding-class name *reference* queue

Tree queue

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description The queue name

Context qos output-class-map name *string* forwarding-class name *reference* queue name *reference*

Tree name

Reference qos queues queue name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

re-direct-to *keyword*

Description The re-direction to interface level queue

Context qos output-class-map name *string* forwarding-class name *reference* queue re-direct-to *keyword*

Tree re-direct-to

Options

- remote

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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packet-trimming

Description Enter the packet-trimming context

Configuration related to packet-trimming

Context qos packet-trimming

Tree packet-trimming

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable-packet-trimming *boolean*

Description Enables packet-trimming on the system

Context qos packet-trimming enable-packet-trimming *boolean*

Tree enable-packet-trimming

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description Timestamp of the last time the packet-trimming statistics were cleared.

Context qos packet-trimming last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

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trimmable-dscp dscp-value *(number | keyword)*

Description	List of dscp values which are eligible for packet-trimming
Context	qos packet-trimming trimmable-dscp dscp-value *(number | keyword)*
Tree	trimmable-dscp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	3

dscp-value *(number | keyword)*

Description	Trimmable DSCP value
Context	qos packet-trimming trimmable-dscp dscp-value *(number | keyword)*
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22 • AF23 • CS3 • AF31 • AF32 • AF33 • CS4 • AF41 • AF42 • AF43

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- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trimmed-dscp *(number | keyword)*

Description The dscp-value the trimmed packets will be marked with

Context qos packet-trimming trimmable-dscp dscp-value *(number | keyword)* trimmed-dscp *(number | keyword)*

Tree trimmed-dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43

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- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trimmed-packets-queue *reference*

Description Enter the trimmed-packets-queue context

Context qos packet-trimming trimmable-dscp dscp-value *(number | keyword)* trimmed-packets-queue *reference*

Tree trimmed-packets-queue

Reference qos queues queue name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trimmable-queues *reference*

Description List of queues enabled for packet-trimming

Context qos packet-trimming trimmable-queues *reference*

Tree trimmable-queues

Reference qos queues queue name *string*

Configurable True

Platforms 7220 IXR-H6-64

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trimmed-packets *number*

Description	Total number of packets trimmed by the system
Context	qos packet-trimming trimmed-packets *number*
Tree	trimmed-packets
Default	0
Configurable	False
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

pfc-mapping-profile name *string*

Description	Enter the pfc-mapping-profile list instance
Context	qos pfc-mapping-profile name *string*
Tree	pfc-mapping-profile
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	7

name *string*

Description	User defined pfc-mapping-profile name. The name 'default' is reserved for system use
Context	qos pfc-mapping-profile name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pfc-priority index *number*

Description	Enter the pfc-priority list instance
Context	qos pfc-mapping-profile name *string* pfc-priority index *number*
Tree	pfc-priority
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	PFC-priority index
Context	qos pfc-mapping-profile name *string* pfc-priority index *number*
Range	0 to 7
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-enable *boolean*

Description	Enables/disables pfc for a given pfc-priority
Context	qos pfc-mapping-profile name *string* pfc-priority index *number* pfc-enable *boolean*
Tree	pfc-enable
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-pfc-pause-frames

Description Enter the received-pfc-pause-frames context

Parameters describing the behaviour when pfc-pause-frames are received on outgoing interface

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames

Tree received-pfc-pause-frames

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

deadlock

Description Enter the deadlock context

Parameters related to avoid a deadlock related to pfc on outgoing interface

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames deadlock

Tree deadlock

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detection-timer *number*

Description Number of milliseconds during which outgoing interface is receiving pfc-pause-frames before triggering recovery-timer

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames deadlock detection-timer *number*

Tree detection-timer

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Range	10 to 1500
Default	750
Units	millisecond
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

enable *boolean*

Description	Enables/disables deadlock mechanism
Context	qos pfc-mapping-profile name *string* received-pfc-pause-frames deadlock enable *boolean*
Tree	enable
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

recovery-timer *number*

Description	Number of milliseconds during which the pfc-pause-frames will be ignored
Context	qos pfc-mapping-profile name *string* received-pfc-pause-frames deadlock recovery-timer *number*
Tree	recovery-timer
Range	100 to 1500
Default	750
Units	milliseconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D,

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7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue queue-name *reference*

Description List of egress-queue which should react to PFC-pause-frames

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames queue queue-name *reference*

Tree queue

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *reference*

Description Egress-queue name

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames queue queue-name *reference*

Reference qos queues queue name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-pause-frame-priority *number*

Description The pfc-priority received in pfc-pause-frame

Context qos pfc-mapping-profile name *string* received-pfc-pause-frames queue queue-name *reference* pfc-pause-frame-priority *number*

Tree pfc-pause-frame-priority

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Range	0 to 7
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

received-traffic

Description	Enter the received-traffic context Parameters related to receiving traffic for pfc-generation
Context	qos pfc-mapping-profile name *string* received-traffic
Tree	received-traffic
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

unicast-mapping

Description	Enter the unicast-mapping context Parameters defing mapping of incoming unicast traffic into a pfc-queues
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping
Tree	unicast-mapping
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-queue pfc-queue-name *reference*

Description	Enter the pfc-queue list instance
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping pfc-queue pfc-queue-name *reference*
Tree	pfc-queue
Configurable	True

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Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

pfc-queue-name *reference*

Description	PFC-queue the packets should be mapped to
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping pfc-queue pfc-queue-name *reference*
Reference	qos queues pfc-queue pfc-queue-name *string*
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

dot1p *number*

Description	dot1p of the packets which will be assigned to a given pfc-queue
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping pfc-queue pfc-queue-name *reference* dot1p *number*
Tree	dot1p
Range	0 to 7
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

forwarding-class *reference*

Description	forwarding-class of packets, that are assigned to a given pfc-queue for untagged routed-interfaces
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping pfc-queue pfc-queue-name *reference* forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

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pfc-pause-frame-priority *number*

Description	PFC priorities indicated in generated pfc-pause-frame if congestion occurs in a given pfc-queue
Context	qos pfc-mapping-profile name *string* received-traffic unicast-mapping pfc-queue pfc-queue-name *reference* pfc-pause-frame-priority *number*
Tree	pfc-pause-frame-priority
Range	0 to 7
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

policer-policies

Description	Enter the policer-policies context Policer-policies for subinterface level traffic metering
Context	qos policer-policies
Tree	policer-policies
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-policy name *string*

Description	List of policer policies
Context	qos policer-policies policer-policy name *string*
Tree	policer-policy
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	64

name *string*

Description	The name assigned to the policer policy
Context	qos policer-policies policer-policy name *string*

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String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer policer-id *number*

Description	The list of policer belonging to the policer-policy
Context	qos policer-policies policer-policy name *string* policer policer-id *number*
Tree	policer
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

policer-id *number*

Description	A number to identify given policer within policer-policy
Context	qos policer-policies policer-policy name *string* policer policer-id *number*
Range	0 to 31
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

adaptation-rules

Description	Enter the adaptation-rules context Container defining adaptation rules for individual policer parameters
Context	qos policer-policies policer-policy name *string* policer policer-id *number* adaptation-rules
Tree	adaptation-rules
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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committed-rate *keyword*

Description Adaptation rule for committed-rate-kbps parameter

Context qos policer-policies policer-policy name *string* policer policer-id *number* adaptation-rules committed-rate *keyword*

Tree committed-rate

Default closest

Options

- closest

  Closest possible HW value is used.

- lower

  The configured values is aligned with closest lower HW value.

- higher

  The configured value is aligned with the closest higher HW value.

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-rate *keyword*

Description Adaptation rule for excess-rate-kbs parameter

Context qos policer-policies policer-policy name *string* policer policer-id *number* adaptation-rules excess-rate *keyword*

Tree excess-rate

Default closest

Options

- closest

  Closest possible HW value is used.

- lower

  The configured values is aligned with closest lower HW value.

- higher

  The configured value is aligned with the closest higher HW value.

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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algorithm-type *keyword*

Description Defines the algorithm-type used for the given policer

Context qos policer-policies policer-policy name *string* policer policer-id *number* algorithm-type *keyword*

Tree algorithm-type

Default trtcm2

Options

- trtcm1

  This enumeration refers to Two-rate Three-color marker as defined by RFC 2698

- trtcm2

  This enumeration refers to Two-rate Three-color marker as defined by RFC 4115

- trtcm2-coupled

  This enumeration refers to Two-rate Three-color marker operating in 'coupled' mode

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

color-aware-mode *boolean*

Description Defines operational mode of the policer - color-aware vs color-blind

Context qos policer-policies policer-policy name *string* policer policer-id *number* color-aware-mode *boolean*

Tree color-aware-mode

Default false

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-burst-size *number*

Description Maximum CIR bucket depth in bytes

Context qos policer-policies policer-policy name *string* policer policer-id *number* committed-burst-size *number*

Tree committed-burst-size

Range 64 to 4161536

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Default	40000
Units	bytes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-rate *number*

Description	The committed information rate (CIR) of the policer, defined in kilobits (1024 bits) per second
Context	qos policer-policies policer-policy name *string* policer policer-id *number* committed-rate *number*
Tree	committed-rate
Range	0 | 64 to 2700000000
Default	64
Units	kbps
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-burst-size *number*

Description	Maximum EIR bucket depth in bytes. This parameter is ignored if 'algorithm-type' is set to 'trtcm1'
Context	qos policer-policies policer-policy name *string* policer policer-id *number* excess-burst-size *number*
Tree	excess-burst-size
Range	64 to 4161536
Default	40000
Units	bytes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-rate *number*

Description	The excess information rate (EIR) of the policer, defined in kilobits (1024 bits) per second.

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Context	qos policer-policies policer-policy name *string* policer policer-id *number* excess-rate *number*
Tree	excess-rate
Range	64 to 2700000000
Default	64
Units	kbps
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-templates

Description	Enter the policer-templates context
Context	qos policer-templates
Tree	policer-templates
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

policer-template name *string*

Description	List of policer templates.
Context	qos policer-templates policer-template name *string*
Tree	policer-template
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

name *string*

Description	The name assigned to the policer template.
Context	qos policer-templates policer-template name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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policer sequence-id *number*

Description	The list of policer instances belonging to the template definition.
Context	qos policer-templates policer-template name *string* policer sequence-id *number*
Tree	policer
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5
Max. Elements	32

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different policers in a template; policers with lower sequence-id numbers are evaluated before policers with higher sequence-id numbers
Context	qos policer-templates policer-template name *string* policer sequence-id *number*
Range	1 to 65535
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

committed-burst-size *number*

Description	Maximum CIR bucket depth in bytes On 7220-D2/D3 the lower limit is 512 Bytes and higher limit is 268 MB
Context	qos policer-templates policer-template name *string* policer sequence-id *number* committed-burst-size *number*
Tree	committed-burst-size
Units	bytes
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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committed-rate-kbps *number*

Description The committed information rate (CIR) of the policer, defined in kilobits (1000 bits) per second On 7220-D2/D3 the minimum rate is 8 Kbps

Context qos policer-templates policer-template name *string* policer sequence-id *number* committed-rate-kbps *number*

Tree committed-rate-kbps

Units kbps

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

exceed-action

Description Enter the exceed-action context

Container with options that specify the handling of packets that the policer has determined are exceeding (yellow)

Context qos policer-templates policer-template name *string* policer sequence-id *number* exceed-action

Tree exceed-action

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

drop-probability *keyword*

Description Recolor exceeding packets to the specified drop-probability level

Context qos policer-templates policer-template name *string* policer sequence-id *number* exceed-action drop-probability *keyword*

Tree drop-probability

Default medium

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

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Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forwarding-class fc *reference*

Description The list of forwarding classes with traffic to be sent to the policer. If this list is not configured then all subinterface traffic is matched.

Context qos policer-templates policer-template name *string* policer sequence-id *number* forwarding-class fc *reference*

Tree forwarding-class

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

fc *reference*

Description A forwarding class that has traffic to match to the policer

Context qos policer-templates policer-template name *string* policer sequence-id *number* forwarding-class fc *reference*

Reference qos forwarding-classes forwarding-class name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forwarding-type *keyword*

Description The list of forwarding types, belonging to this forwarding-class, to match to the policer. If none are specified, this implies ALL forwarding types.

Context qos policer-templates policer-template name *string* policer sequence-id *number* forwarding-class fc *reference* forwarding-type *keyword*

Tree forwarding-type

Options

- unicast

  A packet is 'unicast' if the destination address is unicast and it matches an entry in the FIB

- unknown-unicast

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A packet is 'unknown-unicast' if the destination address is unicast but it doesn't match any entry in the FIB and is therefore conventionally flooded

- multicast

  A packet is 'multicast' if the destination address is a multicast address

  On TD3 systems this includes multicast packets with a known destination/group address and multicast packets with an unknown destination/group address. On TD4 systems this only includes known multicast packets

- unknown-multicast

  Multicast packets with an unknown destination/group address

- broadcast

  A packet is 'broadcast' if the destination address is a broadcast address

Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5
Max. Elements	5

maximum-burst-size *number*

Description	Maximum PIR bucket depth in bytes On 7220-D2/D3 the lower limit is 512 Bytes and higher limit is 268 MB
Context	qos policer-templates policer-template name *string* policer sequence-id *number* maximum-burst-size *number*
Tree	maximum-burst-size
Units	bytes
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

peak-rate-kbps *number*

Description	The peak information rate (PIR) of the policer, defined in kilobits (1000 bits) per second. On 7220-D2/D3 the minimum rate is 8 Kbps
Context	qos policer-templates policer-template name *string* policer sequence-id *number* peak-rate-kbps *number*
Tree	peak-rate-kbps
Units	kbps
Configurable	True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

violate-action

Description Enter the violate-action context

Container with options that specify the handling of packets that the policer has determined are violating (red)

Context qos policer-templates policer-template name *string* policer sequence-id *number* violate-action

Tree violate-action

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

drop

Description Violating packets should be dropped immediately

Context qos policer-templates policer-template name *string* policer sequence-id *number* violate-action drop

Tree drop

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

drop-probability *keyword*

Description Recolor violating packets to the specified drop-probability level

Context qos policer-templates policer-template name *string* policer sequence-id *number* violate-action drop-probability *keyword*

Tree drop-probability

Default high

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

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- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics-mode *keyword*

Description The statistics mode of all policers belonging to this template

Context qos policer-templates policer-template name *string* statistics-mode *keyword*

Tree statistics-mode

Default violating-focus

Options

- violating-focus

  In this statistics mode only 4 counters are provided: accepted-packets, accepted-octets, violating-packets, violating-octets

- forwarding-focus

  In this statistics mode only 4 counters are provided: committed-packets, committed-octets, exceeding-packets, exceeding-octets

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

policers

Description Enter the policers context

Configuration and state for global policers

A global policer is single-rate or dual-rate traffic meter that can be used to rate limit traffic by discarding or remarking non-compliant traffic. An instance of each global policer exists on every forwarding-complex and core of the system, whether traffic is directed to each instance or not.

Context qos policers

Tree policers

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-all-high-drop-probability *boolean*

Description	Defines system-wide policer behaviour with respect to treating high drop-probability packets. When set to true, all policers will discard violating packets. As a consequence, also all packets classified by classifiers as high drop-probability will be dropped
Context	qos policers discard-all-high-drop-probability *boolean*
Tree	discard-all-high-drop-probability
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer name *string*

Description	List of global policers
Context	qos policers policer name *string*
Tree	policer
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the global policer
Context	qos policers policer name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocation-pending

Description	Enter the allocation-pending context

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Details of pending global policer resource allocation

Context qos policers policer name *string* allocation-pending

Tree allocation-pending

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer *string*

Description Complexes with pending HW policer resource allocation.

Each entry identifies a complex in the format forwarding-complex-<slot>/<complex>.

Context qos policers policer name *string* allocation-pending policer *string*

Tree policer

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-statistics *string*

Description Complexes with pending HW policer statistics resource allocation.

Each entry identifies a complex in the format forwarding-complex-<slot>/<complex>.

Context qos policers policer name *string* allocation-pending policer-statistics *string*

Tree policer-statistics

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

color-aware-mode *boolean*

Description Defines operational mode of the policer - color-aware vs color-blind

Context qos policers policer name *string* color-aware-mode *boolean*

Tree color-aware-mode

Default false

Configurable True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-clear *string*

Description	Timestamp of the last time the statistics associated with this global policer were cleared.
Context	qos policers policer name *string* last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

one-rate-two-color

Description	Enter the one-rate-two-color context
Context	qos policers policer name *string* one-rate-two-color
Tree	one-rate-two-color
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-burst-size *number*

Description	Committed burst size for the token bucket scheduler This value represents the depth of the token bucket. The minimum supported burst size is 256 bytes and the maximum supported burst size is 256 MB.
Context	qos policers policer name *string* one-rate-two-color committed-burst-size *number*
Tree	committed-burst-size
Range	256 to 268435456
Units	bytes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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committed-rate *number*

Description	Committed information rate for the token bucket scheduler, defined in kilobits (1000 bits) per second This value represents the rate at which tokens are added to the bucket. The maximum supported rate is 2.7 Tbps.
Context	qos policers policer name *string* one-rate-two-color committed-rate *number*
Tree	committed-rate
Range	0 to 2700000000
Units	kbps
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conform-action

Description	Enter the conform-action context
Context	qos policers policer name *string* one-rate-two-color conform-action
Tree	conform-action
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	Number of octets in conforming packets.
Context	qos policers policer name *string* one-rate-two-color conform-action conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	Number of conforming packets.

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Context	qos policers policer name *string* one-rate-two-color conform-action conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

violate-action

Description	Enter the violate-action context
Context	qos policers policer name *string* one-rate-two-color violate-action
Tree	violate-action
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

violating-octets *number*

Description	Number of octets in violating packets.
Context	qos policers policer name *string* one-rate-two-color violate-action violating-octets *number*
Tree	violating-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

violating-packets *number*

Description	Number of violating packets.
Context	qos policers policer name *string* one-rate-two-color violate-action violating-packets *number*
Tree	violating-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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two-rate-three-color

Description	Enter the two-rate-three-color context
Context	qos policers policer name *string* two-rate-three-color
Tree	two-rate-three-color
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-burst-size *number*

Description	Committed burst size for the token bucket scheduler This value represents the depth of the token bucket. The minimum supported burst size is 256 bytes and the maximum supported burst size is 256 MB.
Context	qos policers policer name *string* two-rate-three-color committed-burst-size *number*
Tree	committed-burst-size
Range	256 to 268435456
Units	bytes
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-rate *number*

Description	Committed information rate for the token bucket scheduler, defined in kilobits (1000 bits) per second This value represents the rate at which tokens are added to the bucket. The maximum supported rate is 2.7 Tbps.
Context	qos policers policer name *string* two-rate-three-color committed-rate *number*
Tree	committed-rate
Range	0 to 2700000000
Units	kbps
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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conform-action

Description	Enter the conform-action context
Context	qos policers policer name *string* two-rate-three-color conform-action
Tree	conform-action
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-octets *number*

Description	Number of octets in conforming packets.
Context	qos policers policer name *string* two-rate-three-color conform-action conforming-octets *number*
Tree	conforming-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

conforming-packets *number*

Description	Number of conforming packets.
Context	qos policers policer name *string* two-rate-three-color conform-action conforming-packets *number*
Tree	conforming-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed-action

Description	Enter the exceed-action context
Context	qos policers policer name *string* two-rate-three-color exceed-action
Tree	exceed-action
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-octets *number*

Description	Number of octets in exceeding packets.
Context	qos policers policer name *string* two-rate-three-color exceed-action exceeding-octets *number*
Tree	exceeding-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceeding-packets *number*

Description	Number of exceeding packets.
Context	qos policers policer name *string* two-rate-three-color exceed-action exceeding-packets *number*
Tree	exceeding-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

excess-burst-size *number*

Description	Excess burst size for the dual-rate token bucket policer This value represents the depth of the secondary bucket. The minimum supported burst size is 256 bytes and the maximum supported burst size is 256 MB.
Context	qos policers policer name *string* two-rate-three-color excess-burst-size *number*
Tree	excess-burst-size
Range	256 to 268435456
Units	bytes
Configurable	True

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate *number*

Description	Peak information rate for the dual-rate token bucket policer, defined in kilobits (1000 bits) per second This value represents the rate at which tokens are added to the secondary bucket. The maximum supported rate is 2.7 Tbps.
Context	qos policers policer name *string* two-rate-three-color peak-rate *number*
Tree	peak-rate
Range	0 to 2700000000
Units	kbps
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

violate-action

Description	Enter the violate-action context
Context	qos policers policer name *string* two-rate-three-color violate-action
Tree	violate-action
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

violating-octets *number*

Description	Number of octets in violating packets.
Context	qos policers policer name *string* two-rate-three-color violate-action violating-octets *number*
Tree	violating-octets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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violating-packets *number*

Description	Number of violating packets.
Context	qos policers policer name *string* two-rate-three-color violate-action violating-packets *number*
Tree	violating-packets
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	The type of global policer
Context	qos policers policer name *string* type *keyword*
Tree	type
Default	one-rate-two-color
Options	• one-rate-two-color • two-rate-three-color
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

preserve-dscp *boolean*

Description	When forwarding an untunneled IP packet or decapsulating an IP-in-IP packet, preserve the received DSCP and use it in the transmitted packet. This should not be enabled unless all IP packets have been classified by a multi-field classifier policy
Context	qos preserve-dscp *boolean*
Tree	preserve-dscp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queues

Description Enter the queues context

Enclosing container for the list of user-defined queue names

Context qos queues

Tree queues

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue pfc-queue-name *string*

Description List of pfc-queues

Context qos queues pfc-queue pfc-queue-name *string*

Tree pfc-queue

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc-queue-name *string*

Description User-defined name of the pfc-queue

Context qos queues pfc-queue pfc-queue-name *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-

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gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-index *number*

Description The queue index (offset) of the pfc-queue

Context qos queues pfc-queue pfc-queue-name *string* queue-index *number*

Tree queue-index

Range 0 to 7

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue name *string*

Description List of user-defined queues

Context qos queues queue name *string*

Tree queue

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description User-defined name of the queue

The following queue names are the system-reserved default queue names on 7250 IXR systems: unicast-0 unicast-1 unicast-2 unicast-3 unicast-4 unicast-5 unicast-6 unicast-7

The following queue names are the system-reserved default queue names on FPcx chipset based systems: queue-0 queue-1 queue-2 queue-3 queue-4 queue-5 queue-6 queue-7 queue-8 queue-9 queue-10 queue-11

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Context	qos queues queue name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-index *number*

Description	The queue index (offset) of the queue within the set of queues allocated to a given interface or subinterface
Context	qos queues queue name *string* queue-index *number*
Tree	queue-index
Range	0 to 11
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-depth-sampling

Description	Enter the queue-depth-sampling context System level configuration for queue-depth sampling
Context	qos queues queue-depth-sampling
Tree	queue-depth-sampling
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

admin-state *keyword*

Description	Set to enable to activate queue-depth sampling on all ports

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Context	qos queues queue-depth-sampling admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

polling-interval *number*

Description	The interval of time between each sample of queue depth
Context	qos queues queue-depth-sampling polling-interval *number*
Tree	polling-interval
Range	30 to 1000
Default	1000
Units	milliseconds
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

rewrite-rules

Description	Enter the rewrite-rules context
Context	qos rewrite-rules
Tree	rewrite-rules
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p-policy name *string*

Description	Enter the dot1p-policy list instance

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Context	qos rewrite-rules dot1p-policy name *string*
Tree	dot1p-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

name *string*

Description	User-configured name for an 802.1p priorty code point rewrite policy
Context	qos rewrite-rules dot1p-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

map forwarding-class *reference*

Description	Enter the map list instance
Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference*
Tree	map
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forwarding-class *reference*

Description	The forwarding class
Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference*
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

dot1p *number*

Description	The dot1p marking to be used for all packets associated with the FC, except those with a drop-probability-specific or profile-specific override

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Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference* dot1p *number*
Tree	dot1p
Range	0 to 7
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

drop-probability drop-probability *keyword*

Description	Enter the drop-probability list instance
Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*
Tree	drop-probability
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description	A drop probability level within the FC for which a different remarking is desired
Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*
Options	• low Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green. • medium Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow. • high Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dot1p *number*

Description	The dot1p marking to be used for this specific drop-probability
Context	qos rewrite-rules dot1p-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword* dot1p *number*
Tree	dot1p
Range	0 to 7
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp-policy name *string*

Description	Enter the dscp-policy list instance
Context	qos rewrite-rules dscp-policy name *string*
Tree	dscp-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description	User-configured name for a DSCP rewrite policy
Context	qos rewrite-rules dscp-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

map forwarding-class *reference*

Description	Enter the map list instance
Context	qos rewrite-rules dscp-policy name *string* map forwarding-class *reference*
Tree	map
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class
Context	qos rewrite-rules dscp-policy name *string* map forwarding-class *reference*
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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drop-probability drop-probability *keyword*

Description Enter the drop-probability list instance

Context qos rewrite-rules dscp-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*

Tree drop-probability

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability *keyword*

Description A drop probability level within the FC for which a different remarking is desired

Context qos rewrite-rules dscp-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dscp *(number | keyword)*

Description The DSCP marking to be used for this specific drop-probability

Context qos rewrite-rules dscp-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword* dscp *(number | keyword)*

Tree dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dscp *(number | keyword)*

Description The DSCP marking to be used for all packets associated with the FC, except those with a drop-probability-specific or profile-specific override

Context qos rewrite-rules dscp-policy name *string* map forwarding-class *reference* dscp *(number | keyword)*

Tree dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-rewrite-policy name *string*

Description	Enter the ip-rewrite-policy list instance
Context	qos rewrite-rules ip-rewrite-policy name *string*
Tree	ip-rewrite-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User defined ip-rewrite-policy name
Context	qos rewrite-rules ip-rewrite-policy name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exceed

Description	Enter the exceed context
Context	qos rewrite-rules ip-rewrite-policy name *string* exceed
Tree	exceed
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dscp *(number | keyword)*

Description The DSCP marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* exceed dscp *(number | keyword)*

Tree dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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precedence *number*

Description	The ip-precedence marking to be used for this specific profile
Context	qos rewrite-rules ip-rewrite-policy name *string* exceed precedence *number*
Tree	precedence
Range	0 to 7
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in

Description	Enter the in context
Context	qos rewrite-rules ip-rewrite-policy name *string* in
Tree	in
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *(number | keyword)*

Description	The DSCP marking to be used for this specific profile
Context	qos rewrite-rules ip-rewrite-policy name *string* in dscp *(number | keyword)*
Tree	dscp
Range	0 to 63
Options	• CS0 • LE • CS1 • AF11

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- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

precedence *number*

Description The ip-precedence marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* in precedence *number*

Tree precedence

Range 0 to 7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-plus

Description Enter the in-plus context

Context qos rewrite-rules ip-rewrite-policy name *string* in-plus

Tree in-plus

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *(number | keyword)*

Description The DSCP marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* in-plus dscp *(number | keyword)*

Tree dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4

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- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

precedence *number*

Description The ip-precedence marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* in-plus precedence *number*

Tree precedence

Range 0 to 7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out

Description Enter the out context

Context qos rewrite-rules ip-rewrite-policy name *string* out

Tree out

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dscp *(number | keyword)*

Description The DSCP marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* out dscp *(number | keyword)*

Tree dscp

Range 0 to 63

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

precedence *number*

Description The ip-precedence marking to be used for this specific profile

Context qos rewrite-rules ip-rewrite-policy name *string* out precedence *number*

Tree precedence

Range 0 to 7

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-traffic-class-policy name *string*

Description Enter the mpls-traffic-class-policy list instance

Context qos rewrite-rules mpls-traffic-class-policy name *string*

Tree mpls-traffic-class-policy

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description User-configured name for an MPLS traffic-class rewrite policy

Context qos rewrite-rules mpls-traffic-class-policy name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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map forwarding-class *reference*

Description	Enter the map list instance
Context	qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference*
Tree	map
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-class *reference*

Description	The forwarding class
Context	qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference*
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

drop-probability drop-probability *keyword*

Description	Enter the drop-probability list instance
Context	qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*
Tree	drop-probability
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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drop-probability *keyword*

Description A drop probability level within the FC for which a different remarking is desired

Context qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword*

Options

- low

  Traffic that should be dropped last when there is congestion. Internally this is traffic that is colored green.

- medium

  Traffic that should be dropped before green traffic but after red traffic when there is congestion. Internally this is traffic that is colored yellow.

- high

  Traffic that should be dropped first when there is congestion. Internally this is traffic that is colored red.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description The MPLS traffic class marking to be used for this specific drop-probability

Context qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference* drop-probability drop-probability *keyword* traffic-class *number*

Tree traffic-class

Range 0 to 7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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traffic-class *number*

Description The MPLS traffic class marking to be used for all packets associated with the FC, except those with a drop-probability-specific or profile-specific override

Context qos rewrite-rules mpls-traffic-class-policy name *string* map forwarding-class *reference* traffic-class *number*

Tree traffic-class

Range 0 to 7

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vxlan-outer-header-dscp-policy *reference*

Description Reference to the name of a DSCP rewrite policy that applies to the outer IP header of originating VXLAN packets

Context qos rewrite-rules vxlan-outer-header-dscp-policy *reference*

Tree vxlan-outer-header-dscp-policy

Reference qos rewrite-rules dscp-policy name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduler-policies

Description Enter the scheduler-policies context

Container for the list of configured scheduler policies

Context qos scheduler-policies

Tree scheduler-policies

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-

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gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduler-policy name *string*

Description List of scheduler policies. A scheduler policy is a set of schedulers that are to be applied together. Each scheduler within a scheduler policy takes an input, and outputs it according to a scheduling discipline that is specified within it

Context qos scheduler-policies scheduler-policy name *string*

Tree scheduler-policy

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name for the scheduler policy

Context qos scheduler-policies scheduler-policy name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scheduler sequence *number*

Description List of defined QoS traffic schedulers

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number*

Tree scheduler

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence *number*

Description	Sequence number for the scheduler within the scheduler policy. Schedulers are processed from lowest sequence to highest
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number*
Range	0 to 1
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input id *string*

Description	List of input sources for the scheduler
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string*
Tree	input
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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id *string*

Description User-defined identifier for the scheduler input

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-rate-kbps *number*

Description Defines CIR value for subinterface queue

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* committed-rate-kbps *number*

Tree committed-rate-kbps

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

committed-rate-percent *number*

Description Defines CIR value for subinterface queue

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* committed-rate-percent *number*

Tree committed-rate-percent

Range 0 to 100

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

input-type *keyword*

Description Enter the input-type context

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* input-type *keyword*

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Tree	input-type
Default	queue
Options	• queue
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate-kbps *number*

Description	Defines PIR value for subinterface queue
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* peak-rate-kbps *number*
Tree	peak-rate-kbps
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate-percent *number*

Description	The maximum percentage of port bandwidth that is available to the traffic in this queue during the PIR scheduling loop. The default is 100
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* peak-rate-percent *number*
Tree	peak-rate-percent
Range	1 to 100
Default	100
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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priority-level *number*

Description	Priority-level for the input in strict-priority scheduler (scheduler 0)
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* priority-level *number*
Tree	priority-level
Range	1 to 5
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *reference*

Description	The queue name
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* queue-name *reference*
Tree	queue-name
Reference	qos queues queue name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

weight *number*

Description	For weighted round-robin schedulers, this leaf indicates the weight of the corresponding input
Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* input id *string* weight *number*
Tree	weight
Range	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output

Description Enter the output context

Output for this scheduler

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* output

Tree output

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

output-type *keyword*

Description Enter the output-type context

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* output output-type *keyword*

Tree output-type

Options

- interface

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate-percent *number*

Description Defines PIR aggregate output rate for scheduler

Context qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* output peak-rate-percent *number*

Tree peak-rate-percent

Range 1 to 100

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *keyword*

Description Priority of the scheduler within the scheduler policy

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Context	qos scheduler-policies scheduler-policy name *string* scheduler sequence *number* priority *keyword*
Tree	priority
Options	• strict This scheduler term is considered as a strict priority term - such that packets that arrive in the queue are immediately serviced
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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10 routing-policy

```
routing-policy
+  as-path-set name string
   +  as-path-set-member string
   +  regex-mode keyword
+  community-set name string
   +  match-set-options keyword
   +  member (identityref | bgp-std-community-type | bgp-large-community-type | string | string
 | string | string | string | string | string | string | string | string | string | string |
 string | bgp-large-community-regexp-type | bgp-std-community-regexp-type)
+  extended-community-set name string
   +  member (string | string | string | string | string | string | string | string | string |
 string | string | string | string | string | string | string | string)
+  policy name string
   +  default-action
      +  bgp
         +  aigp
            +  operation keyword
            +  remove-attribute
            +  value number
         +  as-path
            +  prepend
               +  as-number (number | keyword)
               +  repeat-n number
            +  remove boolean
            +  replace number
         +  communities
            +  add reference
            +  remove reference
            +  replace reference
         +  disable-ip-route-install boolean
         +  extended-community
            +  method keyword
            +  operation keyword
            +  referenced-sets reference
         +  label-allocation
            +  prefix-sid
               +  reuse-igp boolean
         +  local-preference
            +  operation keyword
            +  value number
         +  med
            +  operation keyword
            +  value (keyword | number)
         +  next-hop
            +  set (ipv4-address | ipv6-address | keyword)
         +  next-hop-resolution
            +  set-flex-algo number
            +  set-tag-set reference
         +  origin
            +  set keyword
         +  standard-community
            +  method keyword
            +  operation keyword
            +  referenced-sets reference
      +  internal-tags
         +  set-tag-set reference
```


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```
      +  isis
         +  level number
         +  metric
            +  set-style keyword
            +  set-value number
      +  ospf
         +  metric
            +  set-external-type keyword
            +  set-value number
      +  policy-result keyword
      +  route-preference
         +  set number
   +  statement name string
      +  action
         +  bgp
            +  aigp
               +  operation keyword
               +  remove-attribute
               +  value number
            +  as-path
               +  prepend
                  +  as-number (number | keyword)
                  +  repeat-n number
               +  remove boolean
               +  replace number
            +  communities
               +  add reference
               +  remove reference
               +  replace reference
            +  disable-ip-route-install boolean
            +  extended-community
               +  method keyword
               +  operation keyword
               +  referenced-sets reference
            +  label-allocation
               +  prefix-sid
                  +  reuse-igp boolean
            +  local-preference
               +  operation keyword
               +  value number
            +  med
               +  operation keyword
               +  value (keyword | number)
            +  next-hop
               +  set (ipv4-address | ipv6-address | keyword)
            +  next-hop-resolution
               +  set-flex-algo number
               +  set-tag-set reference
            +  origin
               +  set keyword
            +  protection
               +  srte-policy
                  +  protection-policy reference
                  +  return-path
                     +  mpls-label number
            +  standard-community
               +  method keyword
               +  operation keyword
               +  referenced-sets reference
            +  statistics
               +  labeled-unicast
                  +  egress boolean
                  +  ingress boolean
               +  srte-policy
```


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```
                  +  egress boolean
                  +  ingress boolean
         +  internal-tags
            +  set-tag-set reference
         +  isis
            +  level number
            +  metric
               +  set-style keyword
               +  set-value number
         +  ospf
            +  metric
               +  set-external-type keyword
               +  set-value number
         +  policy-result keyword
         +  resilient-hash
            +  apply boolean
            +  hash-buckets-per-path number
            +  max-paths number
         +  route-preference
            +  set number
      +  condition
         -  evaluation-result boolean
         +  route-table
            +  match-set-options keyword
            +  network-instance reference
            +  prefix-set reference
      +  match
         +  bgp
            +  aigp
               +  present boolean
            +  as-path
               +  as-path-set reference
               +  match-set-options keyword
            +  as-path-length
               +  operator keyword
               +  unique boolean
               +  value number
            +  community-set reference
            +  evpn
               +  route-type number
            +  extended-community
               +  count
                  +  compare keyword
                  +  value number
               +  extended-community-set reference
               +  match-set-options keyword
            +  origin-validation-state keyword
            +  srte-policy
               +  color number
               +  distinguisher number
               +  endpoint (ipv4-address | ipv6-address)
            +  standard-community
               +  count
                  +  compare keyword
                  +  value number
               +  match-set-options keyword
               +  standard-community-set reference
         +  call-policy reference
         +  family identityref
         +  internal-tags
            +  match-set-options keyword
            +  tag-set reference
         +  isis
            +  level number
```


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```
            +  route-type keyword
         +  multicast
            +  group-address
               +  prefix-set reference
            +  source-address
               +  prefix-set reference
         +  network-instance-leaked-route boolean
         +  origin-network-instance reference
         +  ospf
            +  area-id
            +  instance-id number
            +  route-type keyword
         +  prefix
            +  match-set-options keyword
            +  prefix-set reference
         +  protocol identityref
         +  tunnel boolean
         +  tunnel-type identityref
+  prefix-set name string
   +  prefix ip-prefix (ipv4-prefix | ipv6-prefix) mask-length-range string
+  standard-community-set name string
   +  member (identityref | bgp-std-community-regexp-type2)
+  tag-set name string
   -  tag-set-index number
   +  tag-value (number | hex-string)
```


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10.1 routing-policy Descriptions

routing-policy

Description	Enter the routing-policy context Top-level container for all routing policy configuration
Context	routing-policy
Tree	routing-policy
Configurable	True
Platforms	Supported on all platforms

as-path-set name *string*

Description	AS Path regular expressions for use in policy entries
Context	routing-policy as-path-set name *string*
Tree	as-path-set
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	A name used to identify the AS path regular expression
Context	routing-policy as-path-set name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

as-path-set-member *string*

Description	A list of regular expressions
Context	routing-policy as-path-set name *string* as-path-set-member *string*
Tree	as-path-set-member
String Length	1 to 255
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	32

regex-mode *keyword*

Description	Mode used to parse the regular expression in every as-path-set-member of the as-path-set In ASN mode the AS path is converted to a string and the string is matched one complete AS number at a time. In character mode the AS path is converted to a string and the string is matched one character at a time.
Context	routing-policy as-path-set name *string* regex-mode *keyword*
Tree	regex-mode
Default	asn
Options	• asn ASN mode regular expression parsing • character Character mode regular expression parsing
Configurable	True
Platforms	Supported on all platforms

community-set name *string*

Description	List of BGP community sets containing standard, extended and large BGP communities
Context	routing-policy community-set name *string*
Tree	community-set
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	A name used to identify the community set

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Context	routing-policy community-set name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

match-set-options *keyword*

Description	Options that determine the matching criteria that applies to the list of community members
Context	routing-policy community-set name *string* match-set-options *keyword*
Tree	match-set-options
Default	all
Options	• any Match is true if any of the listed community member values is present in the route • all Match is true if all of the listed community member values are present in the route • invert Match is true if none of the listed community member values are present in the route
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member *(identityref | bgp-std-community-type | bgp-large-community-type | string | string | string | string | string | string | string | string | string | string | string | string | bgp-large-community-regexp-type | bgp-std-community-regexp-type)*

Description	A standard BGP community value, regular expression or well-known name or else a large BGP community value or regular expression
Context	routing-policy community-set name *string* member *(identityref	bgp-std-community-type	bgp-large-community-type	string	string	string	string |*

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string | *string* | *string* | *string* | *string* | *string* | *string* | *string* | *string* | *bgp-large-community-regexp-type* | *bgp-std-community-regexp-type)*

Tree member

Options

- no-export

  Do not export NLRI received carrying this community outside the bounds of this autonomous system, or this confederation if the local autonomous system is a confederation member AS. This community has a value of 0xFFFFFF01.

- no-advertise

  All NLRI received carrying this community must not be advertised to other BGP peers. This community has a value of 0xFFFFFF02.

- no-export-subconfed

  All NLRI received carrying this community must not be advertised to external BGP peers - including over confederation sub-AS boundaries. This community has a value of 0xFFFFFF03.

Configurable True

Platforms Supported on all platforms

extended-community-set name *string*

Description List of BGP extended community sets containing only extended BGP communities

Context routing-policy extended-community-set name *string*

Tree extended-community-set

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description A name used to identify the community set

Context routing-policy extended-community-set name *string*

String Length 1 to 255

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member *(string | string | string | string | string | string | string | string | string | string | string | string | string | string | string | string)*

Description	An extended BGP community value or regular expression
Context	routing-policy extended-community-set name *string* member *(string | string | string | string | string | string | string | string | string | string | string | string | string | string | string | string)*
Tree	member
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy name *string*

Description	List of policy definitions, keyed by unique name These policy definitions are expected to be referenced (by name) in policy in import-policy and/or export-policy statements.
Context	routing-policy policy name *string*
Tree	policy
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	A name used to identify the policy
Context	routing-policy policy name *string*

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String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

default-action

Description	Enter the default-action context Actions for routes that do not match any policy statement
Context	routing-policy policy name *string* default-action
Tree	default-action
Configurable	True
Platforms	Supported on all platforms

bgp

Description	Enter the bgp context
Context	routing-policy policy name *string* default-action bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms

aigp

Description	Enter the aigp context Options for handling the AIGP attribute in matched BGP routes.
Context	routing-policy policy name *string* default-action bgp aigp
Tree	aigp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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operation *keyword*

Description Operation applied to the AIGP metric

Context routing-policy policy name *string* default-action bgp aigp operation *keyword*

Tree operation

Options

- set

  Set the AIGP metric to the specified value, overwriting the current value
- add

  Increment the current AIGP metric by the specified value

  If it overflows, remove the attribute.
- subtract

  Decrement the current AIGP metric by the specified value

  If it becomes less than 0, remove the attribute.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove-attribute

Description Remove the AIGP attribute from matched routes

Context routing-policy policy name *string* default-action bgp aigp remove-attribute

Tree remove-attribute

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description	Operand for the AIGP metric operation
Context	routing-policy policy name *string* default-action bgp aigp value *number*
Tree	value
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-path

Description	Enter the as-path context Modify AS Path attribute of routes
Context	routing-policy policy name *string* default-action bgp as-path
Tree	as-path
Configurable	True
Platforms	Supported on all platforms

prepend

Description	Enter the prepend context Prepend a BGP AS number to the AS Path attribute of routes
Context	routing-policy policy name *string* default-action bgp as-path prepend
Tree	prepend
Configurable	True
Platforms	Supported on all platforms

as-number *(number | keyword)*

Description	The AS number to prepend to the AS Path attributes

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If 'auto' is specified then the peer's AS number is used in the context of an import policy and the local AS number is used in the context of an export policy.

Context routing-policy policy name *string* default-action bgp as-path prepend as-number *(number | keyword)*

Tree as-number

Range 1 to 4294967295

Options
- auto

Configurable True

Platforms Supported on all platforms

repeat-n *number*

Description The number of repetitions of the prepended AS number

Context routing-policy policy name *string* default-action bgp as-path prepend repeat-n *number*

Tree repeat-n

Range 1 to 50

Configurable True

Platforms Supported on all platforms

remove *boolean*

Description Clear the AS path to make it empty.

Context routing-policy policy name *string* default-action bgp as-path remove *boolean*

Tree remove

Configurable True

Platforms Supported on all platforms

replace *number*

Description Clear the existing AS path and replace it a new AS_SEQUENCE containing the listed AS numbers.

This takes precedence over a prepend action; the prepend action is not performed if a remove or replace action is specified.

Context routing-policy policy name *string* default-action bgp as-path replace *number*

Tree replace

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Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

communities

Description	Enter the communities context Modify BGP communities attached to routes
Context	routing-policy policy name *string* default-action bgp communities
Tree	communities
Configurable	True
Platforms	Supported on all platforms

add *reference*

Description	Reference to a community-set name All of the non-regex community members in the referenced community-set are added to the COMMUNTIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* default-action bgp communities add *reference*
Tree	add
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

remove *reference*

Description	Reference to a community-set name The communities in the route are compared to all of the community members in the referenced community-set, and all matching communities are removed from the COMMUNITIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* default-action bgp communities remove *reference*
Tree	remove
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

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replace *reference*

Description	Reference to a community-set name All of the existing communities are deleted and then all of the non-regex community members in the referenced community-set are encoded in new COMMUNTIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* default-action bgp communities replace *reference*
Tree	replace
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

disable-ip-route-install *boolean*

Description	Accept the route, allowing its re-advertisement, but do not install the route to the IP FIB
Context	routing-policy policy name *string* default-action bgp disable-ip-route-install *boolean*
Tree	disable-ip-route-install
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-community

Description	Enter the extended-community context
Context	routing-policy policy name *string* default-action bgp extended-community
Tree	extended-community
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *keyword*

Description Indicates the method used to specify the extended communities for the action

Context routing-policy policy name *string* default-action bgp extended-community method *keyword*

Tree method

Default reference

Options

- reference

  The extended communities are specified by referencing a defined extended-community set

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The type of operation for modifying the community attribute with the specified values

Context routing-policy policy name *string* default-action bgp extended-community operation *keyword*

Tree operation

Options

- add

  Add the specified communities to the existing community attribute

- remove

  Remove the specified communities from the existing community attribute

- replace

  Replace the existing community attribute with the specified communities

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If an empty set is specified, this removes the community attribute from the route.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

referenced-sets *reference*

Description Enter the referenced-sets context

Context routing-policy policy name *string* default-action bgp extended-community referenced-sets *reference*

Tree referenced-sets

Reference routing-policy extended-community-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 28

label-allocation

Description Enter the label-allocation context

Actions that determine the method used to assign labels to BGP LU routes matched and accepted by route-table-import policies

Context routing-policy policy name *string* default-action bgp label-allocation

Tree label-allocation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix-sid

Description Enter the prefix-sid context

RIB-OUT label is based on prefix SID configuration

Context routing-policy policy name *string* default-action bgp label-allocation prefix-sid

Tree prefix-sid

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-igp *boolean*

Description When true use the programmed SR-IGP label index for the matching prefix, resulting in a stitch to the IGP segment routing tunnel

Context routing-policy policy name *string* default-action bgp label-allocation prefix-sid reuse-igp *boolean*

Tree reuse-igp

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-preference

Description Enter the local-preference context

Options for modifying the BGP local preference attribute value

Context routing-policy policy name *string* default-action bgp local-preference

Tree local-preference

Configurable True

Platforms Supported on all platforms

operation *keyword*

Description The operation to use when applying the configured value to the current Local-Pref

Context routing-policy policy name *string* default-action bgp local-preference operation *keyword*

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Tree operation

Options

- set

  Set the Local-Pref to the specified value, overwriting the current value

- add

  Increment the current Local-Pref by the specified value

- subtract

  Decrement the current Local-Pref by the specified value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Change the value of the Local-Pref attribute in matching BGP routes

Context routing-policy policy name *string* default-action bgp local-preference value *number*

Tree value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

med

Description Enter the med context

Context routing-policy policy name *string* default-action bgp med

Tree med

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The operation to use when applying the configured value to the existing MED

Context routing-policy policy name *string* default-action bgp med operation *keyword*

Tree operation

Options

- set

  Set the MED to the specified value
- add

  Increment the previous MED by the specified value
- subtract

  Decrement the previous MED by the specified value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(keyword | number)*

Description Change the value of the Multi-Exit Discriminator attribute in matching BGP routes

The route-table-cost option derives its value from the route metric.

Context routing-policy policy name *string* default-action bgp med value *(keyword | number)*

Tree value

Options

- route-table-cost

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop

Description Enter the next-hop context

Container for BGP next-hop modifications

Context routing-policy policy name *string* default-action bgp next-hop

Tree next-hop

Configurable True

Platforms Supported on all platforms

set *(ipv4-address | ipv6-address | keyword)*

Description Set the protocol next-hop addres of matched BGP routes

Context routing-policy policy name *string* default-action bgp next-hop set *(ipv4-address | ipv6-address | keyword)*

Tree set

Options

- self

  Special designation for local router's own address, i.e., next-hop-self

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description Enter the next-hop-resolution context

Actions related to next-hop resolution of matched BGP routes

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Context	routing-policy policy name *string* default-action bgp next-hop-resolution
Tree	next-hop-resolution
Configurable	True
Platforms	Supported on all platforms

set-flex-algo *number*

Description	Action to set the algorithm fornext-hop resolution of matched BGP routes
Context	routing-policy policy name *string* default-action bgp next-hop-resolution set-flex-algo *number*
Tree	set-flex-algo
Range	128 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description	Reference to a tag-set to be used for controlling next-hop resolution
Context	routing-policy policy name *string* default-action bgp next-hop-resolution set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms

origin

Description	Enter the origin context
Context	routing-policy policy name *string* default-action bgp origin
Tree	origin
Configurable	True
Platforms	Supported on all platforms

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set *keyword*

Description The new value of the ORIGIN attribute to write into the matching BGP routes

Context routing-policy policy name *string* default-action bgp origin set *keyword*

Tree set

Options

- igp
- egp
- incomplete

Configurable True

Platforms Supported on all platforms

standard-community

Description Enter the standard-community context

Context routing-policy policy name *string* default-action bgp standard-community

Tree standard-community

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *keyword*

Description Indicates the method used to specify the standard communities for the action

Context routing-policy policy name *string* default-action bgp standard-community method *keyword*

Tree method

Default reference

Options

- reference

  The standard communities are specified by referencing a defined standard-community set

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The type of operation for modifying the community attribute with the specified values

Context routing-policy policy name *string* default-action bgp standard-community operation *keyword*

Tree operation

Options

- add

  Add the specified communities to the existing community attribute

- remove

  Remove the specified communities from the existing community attribute

- replace

  Replace the existing community attribute with the specified communities

  If an empty set is specified, this removes the community attribute from the route.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

referenced-sets *reference*

Description Enter the referenced-sets context

Context routing-policy policy name *string* default-action bgp standard-community referenced-sets *reference*

Tree referenced-sets

Reference routing-policy standard-community-set name *string*

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	28

internal-tags

Description	Enter the internal-tags context Configuration of internal tags
Context	routing-policy policy name *string* default-action internal-tags
Tree	internal-tags
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	routing-policy policy name *string* default-action internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

isis

Description Enter the isis context

Context routing-policy policy name *string* default-action isis

Tree isis

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description Set the level that a prefix is to be imported into

Context routing-policy policy name *string* default-action isis level *number*

Tree level

Range 1 to 2

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric

Description Enter the metric context

Policy actions related to ISIS metrics

Context routing-policy policy name *string* default-action isis metric

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Tree metric

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-style *keyword*

Description Set the style of the metric

Context routing-policy policy name *string* default-action isis metric set-style *keyword*

Tree set-style

Options

- wide

  Wide metric style, supporting metrics greater than 63

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-value *number*

Description Set the metric of the IS-IS prefix

Context routing-policy policy name *string* default-action isis metric set-value *number*

Tree set-value

Range 0 to 16777215

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ospf

Description Enter the ospf context

Context routing-policy policy name *string* default-action ospf

Tree ospf

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric

Description Enter the metric context

Policy actions related to OSPF metrics

Context routing-policy policy name *string* default-action ospf metric

Tree metric

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-external-type *keyword*

Description Set the external metric type of the redistributed route

Context routing-policy policy name *string* default-action ospf metric set-external-type *keyword*

Tree set-external-type

Options

- type-1

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- type-2

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-value *number*

Description Set the metric value of the redistributed route

Context routing-policy policy name *string* default-action ospf metric set-value *number*

Tree set-value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-result *keyword*

Description Select the action type for routes that do not match any policy statement

If no value is configured for the policy-result then the implicit default is a next-policy behavior.

Context routing-policy policy name *string* default-action policy-result *keyword*

Tree policy-result

Options

- accept

  The route is accepted, route property modifications are applied, and evaluation stops immediately

- reject

  The route is rejected and evaluation stops immediately

- next-policy

  Route policy modifications are applied and evaluation continues to the next policy

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Configurable	True
Platforms	Supported on all platforms

route-preference

Description	Enter the route-preference context Options for modifying route preference
Context	routing-policy policy name *string* default-action route-preference
Tree	route-preference
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set *number*

Description	Overwrite the route preference with the specified value The IP route table preference is sometimes called the administrative distance of the route. In general, when comparing any two routes, the route with the lower preference is the one that is activated and used for forwarding. This action has an effect only in BGP import policies and VRF import policies
Context	routing-policy policy name *string* default-action route-preference set *number*
Tree	set
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statement name *string*

Description	Policy statements group conditions and actions within a policy definition. They are evaluated in configuration order.
Context	routing-policy policy name *string* statement name *string*
Tree	statement
Configurable	True
Platforms	Supported on all platforms
Max. Elements	16384

name *string*

Description	Name given to the policy statement (rule).
Context	routing-policy policy name *string* statement name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

action

Description	Enter the action context Actions for routes that match the policy statement
Context	routing-policy policy name *string* statement name *string* action
Tree	action
Configurable	True
Platforms	Supported on all platforms

bgp

Description	Enter the bgp context
Context	routing-policy policy name *string* statement name *string* action bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms

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aigp

Description Enter the aigp context

Options for handling the AIGP attribute in matched BGP routes.

Context routing-policy policy name *string* statement name *string* action bgp aigp

Tree aigp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description Operation applied to the AIGP metric

Context routing-policy policy name *string* statement name *string* action bgp aigp operation *keyword*

Tree operation

Options

- set

  Set the AIGP metric to the specified value, overwriting the current value
- add

  Increment the current AIGP metric by the specified value

  If it overflows, remove the attribute.
- subtract

  Decrement the current AIGP metric by the specified value

  If it becomes less than 0, remove the attribute.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remove-attribute

Description Remove the AIGP attribute from matched routes

Context routing-policy policy name *string* statement name *string* action bgp aigp remove-attribute

Tree remove-attribute

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Operand for the AIGP metric operation

Context routing-policy policy name *string* statement name *string* action bgp aigp value *number*

Tree value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-path

Description Enter the as-path context

Modify AS Path attribute of routes

Context routing-policy policy name *string* statement name *string* action bgp as-path

Tree as-path

Configurable True

Platforms Supported on all platforms

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prepend

Description	Enter the prepend context Prepend a BGP AS number to the AS Path attribute of routes
Context	routing-policy policy name *string* statement name *string* action bgp as-path prepend
Tree	prepend
Configurable	True
Platforms	Supported on all platforms

as-number *(number | keyword)*

Description	The AS number to prepend to the AS Path attributes If 'auto' is specified then the peer's AS number is used in the context of an import policy and the local AS number is used in the context of an export policy.
Context	routing-policy policy name *string* statement name *string* action bgp as-path prepend as-number *(number | keyword)*
Tree	as-number
Range	1 to 4294967295
Options	• auto
Configurable	True
Platforms	Supported on all platforms

repeat-n *number*

Description	The number of repetitions of the prepended AS number
Context	routing-policy policy name *string* statement name *string* action bgp as-path prepend repeat-n *number*
Tree	repeat-n
Range	1 to 50
Configurable	True
Platforms	Supported on all platforms

remove *boolean*

Description	Clear the AS path to make it empty.

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Context	routing-policy policy name *string* statement name *string* action bgp as-path remove *boolean*
Tree	remove
Configurable	True
Platforms	Supported on all platforms

replace *number*

Description	Clear the existing AS path and replace it a new AS_SEQUENCE containing the listed AS numbers. This takes precedence over a prepend action; the prepend action is not performed if a remove or replace action is specified.
Context	routing-policy policy name *string* statement name *string* action bgp as-path replace *number*
Tree	replace
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

communities

Description	Enter the communities context Modify BGP communities attached to routes
Context	routing-policy policy name *string* statement name *string* action bgp communities
Tree	communities
Configurable	True
Platforms	Supported on all platforms

add *reference*

Description	Reference to a community-set name All of the non-regex community members in the referenced community-set are added to the COMMUNTIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* statement name *string* action bgp communities add *reference*
Tree	add

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Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

remove *reference*

Description	Reference to a community-set name The communities in the route are compared to all of the community members in the referenced community-set, and all matching communities are removed from the COMMUNITIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* statement name *string* action bgp communities remove *reference*
Tree	remove
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

replace *reference*

Description	Reference to a community-set name All of the existing communities are deleted and then all of the non-regex community members in the referenced community-set are encoded in new COMMUNTIES and LARGE_COMMUNITIES attributes.
Context	routing-policy policy name *string* statement name *string* action bgp communities replace *reference*
Tree	replace
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

disable-ip-route-install *boolean*

Description	Accept the route, allowing its re-advertisement, but do not install the route to the IP FIB
Context	routing-policy policy name *string* statement name *string* action bgp disable-ip-route-install *boolean*
Tree	disable-ip-route-install
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

extended-community

Description Enter the extended-community context

Context routing-policy policy name *string* statement name *string* action bgp extended-community

Tree extended-community

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *keyword*

Description Indicates the method used to specify the extended communities for the action

Context routing-policy policy name *string* statement name *string* action bgp extended-community method *keyword*

Tree method

Default reference

Options

- reference

  The extended communities are specified by referencing a defined extended-community set

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The type of operation for modifying the community attribute with the specified values

Context routing-policy policy name *string* statement name *string* action bgp extended-community operation *keyword*

Tree operation

Options

- add

  Add the specified communities to the existing community attribute

- remove

  Remove the specified communities from the existing community attribute

- replace

  Replace the existing community attribute with the specified communities

  If an empty set is specified, this removes the community attribute from the route.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

referenced-sets *reference*

Description Enter the referenced-sets context

Context routing-policy policy name *string* statement name *string* action bgp extended-community referenced-sets *reference*

Tree referenced-sets

Reference routing-policy extended-community-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 28

label-allocation

Description Enter the label-allocation context

Actions that determine the method used to assign labels to BGP LU routes matched and accepted by route-table-import policies

Context routing-policy policy name *string* statement name *string* action bgp label-allocation

Tree label-allocation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid

Description Enter the prefix-sid context

RIB-OUT label is based on prefix SID configuration

Context routing-policy policy name *string* statement name *string* action bgp label-allocation prefix-sid

Tree prefix-sid

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reuse-igp *boolean*

Description When true use the programmed SR-IGP label index for the matching prefix, resulting in a stitch to the IGP segment routing tunnel

Context routing-policy policy name *string* statement name *string* action bgp label-allocation prefix-sid reuse-igp *boolean*

Tree reuse-igp

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-preference

Description Enter the local-preference context

Options for modifying the BGP local preference attribute value

Context routing-policy policy name *string* statement name *string* action bgp local-preference

Tree local-preference

Configurable True

Platforms Supported on all platforms

operation *keyword*

Description The operation to use when applying the configured value to the current Local-Pref

Context routing-policy policy name *string* statement name *string* action bgp local-preference operation *keyword*

Tree operation

Options

- set

  Set the Local-Pref to the specified value, overwriting the current value
- add

  Increment the current Local-Pref by the specified value
- subtract

  Decrement the current Local-Pref by the specified value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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value *number*

Description Change the value of the Local-Pref attribute in matching BGP routes

Context routing-policy policy name *string* statement name *string* action bgp local-preference value *number*

Tree value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

med

Description Enter the med context

Context routing-policy policy name *string* statement name *string* action bgp med

Tree med

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The operation to use when applying the configured value to the existing MED

Context routing-policy policy name *string* statement name *string* action bgp med operation *keyword*

Tree operation

Options

- set

  Set the MED to the specified value

- add

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Increment the previous MED by the specified value

- subtract

  Decrement the previous MED by the specified value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *(keyword | number)*

Description Change the value of the Multi-Exit Discriminator attribute in matching BGP routes

The route-table-cost option derives its value from the route metric.

Context routing-policy policy name *string* statement name *string* action bgp med value *(keyword | number)*

Tree value

Options

- route-table-cost

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop

Description Enter the next-hop context

Container for BGP next-hop modifications

Context routing-policy policy name *string* statement name *string* action bgp next-hop

Tree next-hop

Configurable True

Platforms Supported on all platforms

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set *(ipv4-address | ipv6-address | keyword)*

Description Set the protocol next-hop addres of matched BGP routes

Context routing-policy policy name *string* statement name *string* action bgp next-hop set *(ipv4-address | ipv6-address | keyword)*

Tree set

Options

- self

  Special designation for local router's own address, i.e., next-hop-self

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop-resolution

Description Enter the next-hop-resolution context

Actions related to next-hop resolution of matched BGP routes

Context routing-policy policy name *string* statement name *string* action bgp next-hop-resolution

Tree next-hop-resolution

Configurable True

Platforms Supported on all platforms

set-flex-algo *number*

Description Action to set the algorithm fornext-hop resolution of matched BGP routes

Context routing-policy policy name *string* statement name *string* action bgp next-hop-resolution set-flex-algo *number*

Tree set-flex-algo

Range 128 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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set-tag-set *reference*

Description	Reference to a tag-set to be used for controlling next-hop resolution
Context	routing-policy policy name *string* statement name *string* action bgp next-hop-resolution set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	Supported on all platforms

origin

Description	Enter the origin context
Context	routing-policy policy name *string* statement name *string* action bgp origin
Tree	origin
Configurable	True
Platforms	Supported on all platforms

set *keyword*

Description	The new value of the ORIGIN attribute to write into the matching BGP routes
Context	routing-policy policy name *string* statement name *string* action bgp origin set *keyword*
Tree	set
Options	• igp • egp • incomplete
Configurable	True
Platforms	Supported on all platforms

protection

Description	Enter the protection context Policy actions related to protection and maintenance of BGP tunnels
Context	routing-policy policy name *string* statement name *string* action bgp protection
Tree	protection

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Configurable	True
Platforms	Supported on all platforms

srte-policy

Description	Enter the srte-policy context Policy actions related to protection and maintenance of BGP SRTE policy tunnels
Context	routing-policy policy name *string* statement name *string* action bgp protection srte-policy
Tree	srte-policy
Configurable	True
Platforms	Supported on all platforms

protection-policy *reference*

Description	The protection policy to use with the TE policy if the matched BGP route becomes the active candidate path
Context	routing-policy policy name *string* statement name *string* action bgp protection srte-policy protection-policy *reference*
Tree	protection-policy
Reference	system protection-policies policy protection-policy-name *string*
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b platforms

return-path

Description	Enter the return-path context In case of Colored TE-Policy, BGP signalled, return label or SID used by sBFD reflector for return path selection
Context	routing-policy policy name *string* statement name *string* action bgp protection srte-policy return-path
Tree	return-path
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mpls-label *number*

Description MPLS label that is used by reflector while responding to the sBFD request. Assigned value should uniquely identify the sender. Binding-SID or a Node-SID are commonly used options

Context routing-policy policy name *string* statement name *string* action bgp protection srte-policy return-path mpls-label *number*

Tree mpls-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-community

Description Enter the standard-community context

Context routing-policy policy name *string* statement name *string* action bgp standard-community

Tree standard-community

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *keyword*

Description Indicates the method used to specify the standard communities for the action

Context routing-policy policy name *string* statement name *string* action bgp standard-community method *keyword*

Tree method

Default reference

Options

- reference

  The standard communities are specified by referencing a defined standard-community set

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operation *keyword*

Description The type of operation for modifying the community attribute with the specified values

Context routing-policy policy name *string* statement name *string* action bgp standard-community operation *keyword*

Tree operation

Options

- add

  Add the specified communities to the existing community attribute

- remove

  Remove the specified communities from the existing community attribute

- replace

  Replace the existing community attribute with the specified communities

  If an empty set is specified, this removes the community attribute from the route.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

referenced-sets *reference*

Description Enter the referenced-sets context

Context routing-policy policy name *string* statement name *string* action bgp standard-community referenced-sets *reference*

Tree referenced-sets

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Reference	routing-policy standard-community-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	28

statistics

Description	Enter the statistics context Policy actions related to statistics collection
Context	routing-policy policy name *string* statement name *string* action bgp statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

labeled-unicast

Description	Enter the labeled-unicast context Policy actions related to statistics collection of BGP-LU routes and tunnels
Context	routing-policy policy name *string* statement name *string* action bgp statistics labeled-unicast
Tree	labeled-unicast
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description	Set true to enable statistics collection for NHLFE forwarding entries associated with BGP-LU routes

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Context	routing-policy policy name *string* statement name *string* action bgp statistics labeled-unicast egress *boolean*
Tree	egress
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Set true to enable statistics collection for ILM forwarding entries associated with BGP-LU routes
Context	routing-policy policy name *string* statement name *string* action bgp statistics labeled-unicast ingress *boolean*
Tree	ingress
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srte-policy

Description	Enter the srte-policy context Policy actions related to statistics collection of BGP-signaled SR policies
Context	routing-policy policy name *string* statement name *string* action bgp statistics srte-policy
Tree	srte-policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress *boolean*

Description	Set true to enable statistics collection for NHLFE forwarding entries associated with BGP SR policies
Context	routing-policy policy name *string* statement name *string* action bgp statistics srte-policy egress *boolean*
Tree	egress

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress *boolean*

Description	Set true to enable statistics collection for ILM forwarding entries associated with BGP SR policies
Context	routing-policy policy name *string* statement name *string* action bgp statistics srte-policy ingress *boolean*
Tree	ingress
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration of internal tags
Context	routing-policy policy name *string* statement name *string* action internal-tags
Tree	internal-tags
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	routing-policy policy name *string* statement name *string* action internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

isis

Description	Enter the isis context
Context	routing-policy policy name *string* statement name *string* action isis
Tree	isis
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

level *number*

Description	Set the level that a prefix is to be imported into
Context	routing-policy policy name *string* statement name *string* action isis level *number*
Tree	level
Range	1 to 2
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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metric

Description Enter the metric context

Policy actions related to ISIS metrics

Context routing-policy policy name *string* statement name *string* action isis metric

Tree metric

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-style *keyword*

Description Set the style of the metric

Context routing-policy policy name *string* statement name *string* action isis metric set-style *keyword*

Tree set-style

Options

- wide

  Wide metric style, supporting metrics greater than 63

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-value *number*

Description Set the metric of the IS-IS prefix

Context routing-policy policy name *string* statement name *string* action isis metric set-value *number*

Tree set-value

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Range	0 to 16777215
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ospf

Description	Enter the ospf context
Context	routing-policy policy name *string* statement name *string* action ospf
Tree	ospf
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metric

Description	Enter the metric context Policy actions related to OSPF metrics
Context	routing-policy policy name *string* statement name *string* action ospf metric
Tree	metric
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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set-external-type *keyword*

Description Set the external metric type of the redistributed route

Context routing-policy policy name *string* statement name *string* action ospf metric set-external-type *keyword*

Tree set-external-type

Options

- type-1
- type-2

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-value *number*

Description Set the metric value of the redistributed route

Context routing-policy policy name *string* statement name *string* action ospf metric set-value *number*

Tree set-value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-result *keyword*

Description Select the action to apply to matching routes

If no value is configured for the policy-result then the implicit default is a next-statement behavior.

Context routing-policy policy name *string* statement name *string* action policy-result *keyword*

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Tree policy-result

Options

- accept

  The route is accepted, route property modifications are applied, and evaluation stops immediately

- reject

  The route is rejected and evaluation stops immediately

- next-statement

  Route policy modifications are applied and evaluation continues to the next statement

- next-policy

  Route policy modifications are applied and evaluation continues to the next policy

Configurable True

Platforms Supported on all platforms

resilient-hash

Description Enter the resilient-hash context

Options for controlling ECMP resilient hashing behavior

Context routing-policy policy name *string* statement name *string* action resilient-hash

Tree resilient-hash

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

apply *boolean*

Description When set true, resilient hashing is enabled if the accepted route becomes the best BGP path

When set false, resilient hashing is disabled if the accepted route becomes the best BGP path.

This action only applies in BGP import policies.

Context routing-policy policy name *string* statement name *string* action resilient-hash apply *boolean*

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Tree	apply
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash-buckets-per-path *number*

Description	The number of times each next-hop is repeated in the fill pattern if there are max-paths ECMP next-hops A larger number consumes more resources but provides more granularity when flows need to be moved. There is a platform-specific limit to the product of this hash-buckets-per-path value and the max-paths value.
Context	routing-policy policy name *string* statement name *string* action resilient-hash hash-buckets-per-path *number*
Tree	hash-buckets-per-path
Range	1 to 32
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-paths *number*

Description	The maximum number of ECMP next-hops per route associated with the resilient-hash prefix If a matching route has more than this number of ECMP next-hops only the first N are used, where N is the value of this parameter. There is a platform-specific limit to the product of this max-paths value and the hash-buckets-per-path value.
Context	routing-policy policy name *string* statement name *string* action resilient-hash max-paths *number*
Tree	max-paths
Range	1 to 64

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-preference

Description	Enter the route-preference context Options for modifying route preference
Context	routing-policy policy name *string* statement name *string* action route-preference
Tree	route-preference
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set *number*

Description	Overwrite the route preference with the specified value The IP route table preference is sometimes called the administrative distance of the route. In general, when comparing any two routes, the route with the lower preference is the one that is activated and used for forwarding. This action has an effect only in BGP import policies and VRF import policies
Context	routing-policy policy name *string* statement name *string* action route-preference set *number*
Tree	set
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

condition

Description Enter the condition context

Conditions that must be met for the policy statement to be evaluated

Context routing-policy policy name *string* statement name *string* condition

Tree condition

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evaluation-result *boolean*

Description Reads true when the condition is fulfilled, resulting in evaluation of the statement

Context routing-policy policy name *string* statement name *string* condition evaluation-result *boolean*

Tree evaluation-result

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-table

Description Enter the route-table context

Conditions related to the presence of routes in the route-table

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Context routing-policy policy name *string* statement name *string* condition route-table

Tree route-table

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-set-options *keyword*

Description Options that determine the matching criteria that applies to the list of prefixes

The implicit default behavior is any

Context routing-policy policy name *string* statement name *string* condition route-table match-set-options *keyword*

Tree match-set-options

Options

- any

  Condition is true if any element in the prefix set matches at least one active route in the route-table

- all

  Match is true if every element in the prefix set matches at least one active route in the route-table

- invert

  Match is true if there is no element in the prefix set that matches at least one route in the route-table

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description Reference to the network-instance with the route-table to be analyzed

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Context	routing-policy policy name *string* statement name *string* condition route-table network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-set *reference*

Description	Reference to a prefix set name
Context	routing-policy policy name *string* statement name *string* condition route-table prefix-set *reference*
Tree	prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match

Description	Enter the match context Match conditions of the policy statement
Context	routing-policy policy name *string* statement name *string* match
Tree	match
Configurable	True
Platforms	Supported on all platforms

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bgp

Description Enter the bgp context

Configuration for BGP-specific policy match criteria

Context routing-policy policy name *string* statement name *string* match bgp

Tree bgp

Configurable True

Platforms Supported on all platforms

aigp

Description Enter the aigp context

Context routing-policy policy name *string* statement name *string* match bgp aigp

Tree aigp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

present *boolean*

Description If true, match only BGP routes that have an AIGP path attribute

If false, match only BGP routes that do not have an AIGP path attribute.

Context routing-policy policy name *string* statement name *string* match bgp aigp present *boolean*

Tree present

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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as-path

Description Enter the as-path context

Context routing-policy policy name *string* statement name *string* match bgp as-path

Tree as-path

Configurable True

Platforms Supported on all platforms

as-path-set *reference*

Description Reference to an as-path-set name

A route meets this condition if it matches the as-path-set-member regex strings according to the match-set-options logic

Context routing-policy policy name *string* statement name *string* match bgp as-path as-path-set *reference*

Tree as-path-set

Reference routing-policy as-path-set name *string*

Configurable True

Platforms Supported on all platforms

match-set-options *keyword*

Description Options that determine the matching criteria that applies to the members in the referenced set

Context routing-policy policy name *string* statement name *string* match bgp as-path match-set-options *keyword*

Tree match-set-options

Default any

Options

- any

  Match is true if any of the members in the referenced set is present in the route

- all

  Match is true if all of the members in the referenced set are present in the route

- invert

  Match is true if none of the members in the referenced set are present in the route

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

as-path-length

Description	Enter the as-path-length context A BGP route matches this condition if the number of (unique) AS numbers in its AS_PATH matches this value or the range implied by the value+operator.
Context	routing-policy policy name *string* statement name *string* match bgp as-path-length
Tree	as-path-length
Configurable	True
Platforms	Supported on all platforms

operator *keyword*

Description	The comparison operator that applies to the value
Context	routing-policy policy name *string* statement name *string* match bgp as-path-length operator *keyword*
Tree	operator
Options	• eq • ge • le
Configurable	True
Platforms	Supported on all platforms

unique *boolean*

Description	Count a repeated sequence of the same AS number as just 1 element
Context	routing-policy policy name *string* statement name *string* match bgp as-path-length unique *boolean*
Tree	unique

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Configurable	True
Platforms	Supported on all platforms

value *number*

Description	The number of (unique) AS numbers in the AS path
Context	routing-policy policy name *string* statement name *string* match bgp as-path-length value *number*
Tree	value
Range	0 to 255
Configurable	True
Platforms	Supported on all platforms

community-set *reference*

Description	Reference to a community-set name A route meets this condition if has any community value matching a community member in the referenced community-set
Context	routing-policy policy name *string* statement name *string* match bgp community-set *reference*
Tree	community-set
Reference	routing-policy community-set name *string*
Configurable	True
Platforms	Supported on all platforms

evpn

Description	Enter the evpn context Container for match conditions that are specific to BGP EVPN routes.
Context	routing-policy policy name *string* statement name *string* match bgp evpn
Tree	evpn
Configurable	True
Platforms	Supported on all platforms

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route-type *number*

Description An EVPN route meets this condition if the route-type field in the NLRI is one of the values provided in this list.

Context routing-policy policy name *string* statement name *string* match bgp evpn route-type *number*

Tree route-type

Range 1 to 8

Configurable True

Platforms Supported on all platforms

Max. Elements 1

extended-community

Description Enter the extended-community context

Context routing-policy policy name *string* statement name *string* match bgp extended-community

Tree extended-community

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count

Description Enter the count context

Match based on the number of extended communities attached to the route. A non-BGP route never matches this condition.

Context routing-policy policy name *string* statement name *string* match bgp extended-community count

Tree count

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

compare *keyword*

Description Comparison operator applied to the extended community count

Context routing-policy policy name *string* statement name *string* match bgp extended-community count compare *keyword*

Tree compare

Options

- eq
- ge
- le

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Number of extended communities to compare against

Context routing-policy policy name *string* statement name *string* match bgp extended-community count value *number*

Tree value

Range 0 to 1024

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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extended-community-set *reference*

Description Reference to an extended-community-set name

A route meets this condition if the configured match-set-options apply to the referenced extended-community-set

Context routing-policy policy name *string* statement name *string* match bgp extended-community extended-community-set *reference*

Tree extended-community-set

Reference routing-policy extended-community-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-set-options *keyword*

Description Options that determine the matching criteria that applies to the members in the referenced set

Context routing-policy policy name *string* statement name *string* match bgp extended-community match-set-options *keyword*

Tree match-set-options

Default any

Options

- any

  Match is true if any of the members in the referenced set is present in the route

- all

  Match is true if all of the members in the referenced set are present in the route

- invert

  Match is true if none of the members in the referenced set are present in the route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-validation-state *keyword*

Description

Match BGP routes based on their RPKI origin validation state.

A route meets this condition if its origin-validation-state matches the configured value. Applies to BGP routes in any address family for which origin validation is enabled, including ipv4-unicast, ipv6-unicast, ipv4-labeled-unicast, and ipv6-labeled-unicast.

Non-BGP routes do not carry an origin-validation-state and will not match this condition regardless of the configured value.

'disabled' is not a valid match value here and is therefore not part of this leaf's type. A route with origin validation disabled simply does not carry a determined origin-validation-state and will not match any configured value of this leaf.

Only a single value may be matched per policy term. To match multiple states (e.g., valid and not-found for permissive RPKI mode), use separate policy terms.

Requires the bgp-rpki-origin-validation feature flag and origin validation to be enabled on the relevant BGP neighbor or peer-group AFI-SAFI.

Context

routing-policy policy name *string* statement name *string* match bgp origin-validation-state *keyword*

Tree

origin-validation-state

Options

- valid

  Route matches a ROA entry with correct prefix-length and origin AS

- invalid

  Route matches a ROA entry but prefix-length or origin AS does not match

- not-found

  No matching ROA entry exists for this prefix

Configurable

True

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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srte-policy

Description Enter the srte-policy context

Context routing-policy policy name *string* statement name *string* match bgp srte-policy

Tree srte-policy

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description Color of the SRTE policy, used to steer traffic into the tunnel

Context routing-policy policy name *string* statement name *string* match bgp srte-policy color *number*

Tree color

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

distinguisher *number*

Description Unique identifier of the policy candidate path in the context of <color, endpoint> tuple

Context routing-policy policy name *string* statement name *string* match bgp srte-policy distinguisher *number*

Tree distinguisher

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address | ipv6-address)*

Description The endpoint IPv4 or IPv6 address of the SR policy

Context routing-policy policy name *string* statement name *string* match bgp srte-policy endpoint *(ipv4-address | ipv6-address)*

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Tree	endpoint
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-community

Description	Enter the standard-community context
Context	routing-policy policy name *string* statement name *string* match bgp standard-community
Tree	standard-community
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

count

Description	Enter the count context Match based on the number of standard communities attached to the route. A non-BGP route never matches this condition.
Context	routing-policy policy name *string* statement name *string* match bgp standard-community count
Tree	count
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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compare *keyword*

Description Comparison operator applied to the standard community count

Context routing-policy policy name *string* statement name *string* match bgp standard-community count compare *keyword*

Tree compare

Options

- eq
- ge
- le

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description Number of standard communities to compare against

Context routing-policy policy name *string* statement name *string* match bgp standard-community count value *number*

Tree value

Range 0 to 1024

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-set-options *keyword*

Description Options that determine the matching criteria that applies to the members in the referenced set

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Context routing-policy policy name *string* statement name *string* match bgp standard-community match-set-options *keyword*

Tree match-set-options

Default any

Options

- any

  Match is true if any of the members in the referenced set is present in the route

- all

  Match is true if all of the members in the referenced set are present in the route

- invert

  Match is true if none of the members in the referenced set are present in the route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

standard-community-set *reference*

Description Reference to a standard-community-set name

A route meets this condition if the configured match-set-options apply to the referenced standard-community-set

Context routing-policy policy name *string* statement name *string* match bgp standard-community standard-community-set *reference*

Tree standard-community-set

Reference routing-policy standard-community-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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call-policy *reference*

Description Call another policy as a subroutine

If the final action of the called policy (which may in turn call other policies) with respect to a route is 'accept' then the route is considered to satisfy this match condition. If the final action of the called policy with respect to a route is 'reject' then the route is considered a non-match of this condition and hence the policy statement

Context routing-policy policy name *string* statement name *string* match call-policy *reference*

Tree call-policy

Reference routing-policy policy name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

family *identityref*

Description The name of an address family

A route meets this condition if the prefix belongs to one of the indicated address families.

Context routing-policy policy name *string* statement name *string* match family *identityref*

Tree family

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)

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- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

internal-tags

Description Enter the internal-tags context

Configuration and state of internal tags

Context routing-policy policy name *string* statement name *string* match internal-tags

Tree internal-tags

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match-set-options *keyword*

Description Options that determine the matching criteria that applies to the members in the referenced set

Context routing-policy policy name *string* statement name *string* match internal-tags match-set-options *keyword*

Tree match-set-options

Default any

Options

- any

  Match is true if any of the members in the referenced set is present in the route

- all

  Match is true if all of the members in the referenced set are present in the route

- invert

  Match is true if none of the members in the referenced set are present in the route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-set *reference*

Description Reference to a tag-set defined under routing-policy

Context routing-policy policy name *string* statement name *string* match internal-tags tag-set *reference*

Tree tag-set

Reference routing-policy tag-set name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

isis

Description Enter the isis context

Configuration for ISIS-specific policy match criteria

Context routing-policy policy name *string* statement name *string* match isis

Tree isis

Configurable True

Platforms Supported on all platforms

level *number*

Description Match an IS-IS route based on its level

Context routing-policy policy name *string* statement name *string* match isis level *number*

Tree level

Range 1 to 2

Configurable True

Platforms Supported on all platforms

route-type *keyword*

Description Match an IS-IS route based on its type

An IS-IS IPv4 prefix is external if it is signalled in TLV 130 or TLV135 with RFC 7794 X flag=1. An IS-IS IPv6 prefix is external if the TLV 236/TLV 237 external bit = 1.

Context routing-policy policy name *string* statement name *string* match isis route-type *keyword*

Tree route-type

Options

- internal

  Match only internal routes

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- external

  Match only external routes

Configurable True

Platforms Supported on all platforms

multicast

Description Enter the multicast context

Context routing-policy policy name *string* statement name *string* match multicast

Tree multicast

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-address

Description Enter the group-address context

Multicast group IP address

To match a <S,G> the source needs to be present in the multicast source-address leafref and the group needs to present in the group-address leafref. To match a <*,G> the group has to be programmed in the group-address leafref and no source in the source-address leafref. Group address can be configured as a prefix.

Context routing-policy policy name *string* statement name *string* match multicast group-address

Tree group-address

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-set *reference*

Description Enter the prefix-set context

Context routing-policy policy name *string* statement name *string* match multicast group-address prefix-set *reference*

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Tree	prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address

Description	Enter the source-address context Multicast Source IP address Source address can be configured as a prefix.
Context	routing-policy policy name *string* statement name *string* match multicast source-address
Tree	source-address
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-set *reference*

Description	Enter the prefix-set context
Context	routing-policy policy name *string* statement name *string* match multicast source-address prefix-set *reference*
Tree	prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance-leaked-route *boolean*

Description	When set true, match all leaked routes (with an origin-network-instance different than the local context network-instance)

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Context	routing-policy policy name *string* statement name *string* match network-instance-leaked-route *boolean*
Tree	network-instance-leaked-route
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-network-instance *reference*

Description	Reference to network-instance that leaked the route into the network-instance where the policy is being evaluated
Context	routing-policy policy name *string* statement name *string* match origin-network-instance *reference*
Tree	origin-network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ospf

Description	Enter the ospf context Configuration for OSPF-specific policy match criteria
Context	routing-policy policy name *string* statement name *string* match ospf
Tree	ospf
Configurable	True
Platforms	Supported on all platforms

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area-id

Description The area identifier as a dotted-quad.

Context routing-policy policy name *string* statement name *string* match ospf area-id

Tree area-id

Configurable True

Platforms Supported on all platforms

instance-id *number*

Description OSPFv3 instance identifier

Context routing-policy policy name *string* statement name *string* match ospf instance-id *number*

Tree instance-id

Range 0 to 255

Configurable True

Platforms Supported on all platforms

route-type *keyword*

Description The OSPF route type.

Context routing-policy policy name *string* statement name *string* match ospf route-type *keyword*

Tree route-type

Options

- internal

  Match only internal routes
- external

  Match only external routes

Configurable True

Platforms Supported on all platforms

prefix

Description Enter the prefix context

Context routing-policy policy name *string* statement name *string* match prefix

Tree prefix

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Configurable	True
Platforms	Supported on all platforms

match-set-options *keyword*

Description	Options that determine the matching criteria that applies to the list of prefixes
Context	routing-policy policy name *string* statement name *string* match prefix match-set-options *keyword*
Tree	match-set-options
Default	any
Options	• any Match is true if any element in the referenced set matches the prefix of the route • invert Match is true if no element in the referenced set matches the prefix of the route
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-set *reference*

Description	Reference to a prefix set name
Context	routing-policy policy name *string* statement name *string* match prefix prefix-set *reference*
Tree	prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	Supported on all platforms

protocol *identityref*

Description	The route type to match

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Context	routing-policy policy name *string* statement name *string* match protocol *identityref*
Tree	protocol
Options	• routing-policy-protocol-match-type Base type for the types of routes that can be matched by a route policy statement
Configurable	True
Platforms	Supported on all platforms

tunnel *boolean*

Description	When true, only match tunnels and when false, only match IP routes When unconfigured, match both routes and tunnels
Context	routing-policy policy name *string* statement name *string* match tunnel *boolean*
Tree	tunnel
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-type *identityref*

Description	The tunnel type to match
Context	routing-policy policy name *string* statement name *string* match tunnel-type *identityref*
Tree	tunnel-type
Options	• routing-policy-tunnel-match-type Base type for the types of tunnels that can be matched by a route policy statement
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-set name *string*

Description	List of defined prefix sets
Context	routing-policy prefix-set name *string*
Tree	prefix-set
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	A name used to identify the prefix set
Context	routing-policy prefix-set name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* mask-length-range *string*

Description	List of prefixes in the prefix set
Context	routing-policy prefix-set name *string* prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* mask-length-range *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

ip-prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix in CIDR notation
Context	routing-policy prefix-set name *string* prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* mask-length-range *string*
Configurable	True
Platforms	Supported on all platforms

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mask-length-range *string*

Description	The range of prefix lengths to match Example: 10.3.192.0/21 through 10.3.192.0/24 would be expressed as prefix: 10.3.192.0/21, mask-length-range: 21..24. Example: 10.3.192.0/21 would be expressed as prefix: 10.3.192.0/21, mask-length-range: exact
Context	routing-policy prefix-set name *string* prefix ip-prefix *(ipv4-prefix | ipv6-prefix)* mask-length-range *string*
String Length	1 to 16
Configurable	True
Platforms	Supported on all platforms

standard-community-set name *string*

Description	List of BGP standard community sets containing only standard BGP communities
Context	routing-policy standard-community-set name *string*
Tree	standard-community-set
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	A name used to identify the community set
Context	routing-policy standard-community-set name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member *(identityref | bgp-std-community-regexp-type2)*

Description A standard BGP community value or regular expression

Context routing-policy standard-community-set name *string* member *(identityref | bgp-std-community-regexp-type2)*

Tree member

Options

- no-export

  Do not export NLRI received carrying this community outside the bounds of this autonomous system, or this confederation if the local autonomous system is a confederation member AS. This community has a value of 0xFFFFFF01.

- no-advertise

  All NLRI received carrying this community must not be advertised to other BGP peers. This community has a value of 0xFFFFFF02.

- no-export-subconfed

  All NLRI received carrying this community must not be advertised to external BGP peers - including over confederation sub-AS boundaries. This community has a value of 0xFFFFFF03.

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-set name *string*

Description List of administrative tag sets

Context routing-policy tag-set name *string*

Tree tag-set

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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	IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1024

name *string*

Description	A name used to identify the tag set
Context	routing-policy tag-set name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-set-index *number*

Description	System-wide persistent unique identifier assigned to the tag-set
Context	routing-policy tag-set name *string* tag-set-index *number*
Tree	tag-set-index
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag-value *(number | hex-string)*

Description	Value of the tag set member
Context	routing-policy tag-set name *string* tag-value *(number | hex-string)*

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Tree	tag-value
String Length	1 to 11
Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2
Min. Elements	1

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11 system

```
system
+  aaa
   +  accounting
      +  accounting-method reference
      +  acctz
         +  history-size number
      +  event event-type identityref
         +  record identityref
   +  authentication
      +  admin-user
         -  credentialz
            -  authorized-keys
               -  created-on string
               -  version string
            -  authorized-principals
               -  created-on string
               -  version string
            -  password
               -  created-on string
               -  version string
         +  disable-user boolean
         -  failed-login-attempts number
         -  last-failed-login string
         -  last-successful-login string
         -  lockout
            -  active boolean
            -  end string
            -  start string
         +  password string
         -  password-change-required boolean
         +  role reference
         +  spiffe-ids string
         +  ssh-key string
         +  ssh-principals string
         +  superuser boolean
         -  username string
      +  authentication-method reference
      +  dynamic-spiffe
         +  allow boolean
         +  role reference
      +  exit-on-reject boolean
      x  force-all-user-password-change
         o  message string
      +  idle-timeout number
      +  linuxadmin-user
         -  credentialz
            -  authorized-keys
               -  created-on string
               -  version string
            -  authorized-principals
               -  created-on string
               -  version string
            -  password
               -  created-on string
               -  version string
         +  disable-user boolean
```


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```
      +  password string
      +  ssh-key string
      +  ssh-principals string
      -  username string
   +  local-linux-users
      +  allow-fallback boolean
      +  disable-login keyword
   +  login-method
      +  console keyword
      +  glome-key string
      +  remote keyword
   +  password
      +  aging number
      +  change-on-first-login boolean
      +  complexity-rules
         +  allow-username boolean
         +  disallow-sequence-keys number
         +  maximum-length number
         +  minimum-length number
         +  minimum-lowercase number
         +  minimum-numeric number
         +  minimum-special-character number
         +  minimum-uppercase number
         +  repeated-characters number
      +  hash-method keyword
      +  history number
      +  lockout-policy
         +  attempts number
         +  lockout number
         +  time number
      +  require-ntp-sync boolean
   -  session id number
      -  authentication-method string
      -  login-time string
      -  network-instance string
      -  pid number
      -  priv-lvl number
      -  remote-host string
      -  role string
      -  service-name string
      -  spiffe-id string
      -  tty-name string
      -  username string
   +  ssh-connection-limit number
   +  user username string
      -  credentialz
         -  authorized-keys
            -  created-on string
            -  version string
         -  authorized-principals
            -  created-on string
            -  version string
         -  password
            -  created-on string
            -  version string
      -  failed-login-attempts number
      x  force-password-change
         o  message string
      -  last-failed-login string
      -  last-successful-login string
      -  lockout
         -  active boolean
         -  end string
         -  start string
```


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```
      +  password string
      -  password-change-required boolean
      +  role reference
      +  spiffe-ids string
      +  ssh-key string
      +  ssh-principals string
      +  superuser boolean
+  authorization
   -  authz-policy
      -  counters
         -  rpc name string
            -  access-accepts number
            -  access-rejects number
            -  last-access-accept string
            -  last-access-reject string
      -  created-on string
      -  policy string
      -  version string
   +  role rolename string
      +  cli
         +  allow-command-list string
         +  deny-command-list string
         +  load-global-plugins boolean
         +  load-user-plugins boolean
      +  netconf
         +  allowed-operations keyword
      +  services keyword
      +  superuser boolean
      +  tacacs
         +  priv-lvl number
+  server-group name string
   +  health-check (number | keyword)
   -  oper-state keyword
   +  server address (ipv4 | ipv6 | domain-name)
      +  name string
      +  network-instance reference
      -  oper-state keyword
      +  radius
         +  acct-port number
         +  auth-port number
         +  retransmit-attempts number
         +  secret-key string
         +  source-address (ipv4-address | ipv6-address)
      -  statistics
         -  accounting-connection-failures number
         -  accounting-rejects number
         -  accounting-success number
         -  authorization-connection-failures number
         -  authorization-rejects number
         -  authorization-success number
         -  invalid-vsas number
         -  login-connection-failures number
         -  login-rejects number
         -  login-success number
         -  malformed-vsas number
         -  tls-error keyword
         -  unknown-vsas number
         -  valid-vsas number
      +  tacacs
         +  port number
         +  secret-key string
         +  source-address (ipv4-address | ipv6-address)
      +  timeout number
      +  tls-profile reference
```


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```
      +  tacacs
         +  priv-lvl-authorization boolean
         +  service-request
            +  nokia-srl-authorization-role boolean
            +  nokia-srl-authorization-role-cli boolean
            +  nokia-srl-authorization-role-netconf boolean
            +  nokia-srl-configuration-role boolean
      +  timeout number
      +  type identityref
+  alarms
   -  active id string
      -  resource string
      -  severity keyword
      -  text string
      -  time-created string
      -  type-id string
   +  admin-state keyword
-  app-management
   -  application name string
      -  author string
      -  cgroup string
      -  failure-action string
      -  failure-threshold number
      -  failure-window number
      -  last-change string
      -  last-start-type keyword
      -  launch-command string
      -  oom-score-adj number
      -  path string
      -  pid number
      -  restricted-operations keyword
      -  search-command string
      -  state keyword
      -  statistics
         -  restart-count number
      -  supported-restart-types keyword
      -  synchronization-state keyword
      -  version string
      -  yang
         -  modules string
         -  source-directories string
+  authentication
   +  keychain name string
      -  active-key-for-send (keyword | reference)
      +  admin-state keyword
      +  description string
      -  expired boolean
      +  key index number
         +  algorithm keyword
         +  authentication-key string
         +  macsec
            +  admin-state keyword
            +  cak string
            +  key-name string
         +  receive-lifetime
            +  end-time (keyword | date-and-time-delta)
            +  start-time string
         +  send-lifetime
            +  send-and-receive boolean
            +  start-time string
      +  tolerance number
      +  type keyword
      -  usable boolean
+  banner
```


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```
   +  login-banner string
   +  motd-banner string
+  boot
   +  autoboot
      +  admin-state keyword
      +  attempts number
      +  client-id keyword
      +  interface reference
      +  mode keyword
      -  oper-state string
      +  timeout number
   +  bootz
      -  no-dhcp
      +  status
         -  bootstate string
         -  bootstate-timestamp string
   +  fips-140
      +  admin-state keyword
      -  chassis-reboot-required boolean
      -  oper-down-reason keyword
      -  oper-state keyword
   -  golden-image string
   +  grub-password string
   -  image string
+  bridge-table
   +  evpn
      +  multicast-tep
         -  max-entries number
         +  mpls
            -  statistics
               -  active-entries number
               -  total-entries number
            -  tep tep (ipv4-address | ipv6-address)
               -  index number
               -  last-changed string
   +  mac-learning
      -  mac-relearn-only boolean
   +  mac-limit
      -  maximum-entries number
      -  warning-threshold-pct number
   -  proxy-arp
      -  statistics
         -  active-entries number
         -  in-active-entries number
         -  neighbor-origin origin keyword
            -  active-entries number
            -  in-active-entries number
            -  pending-entries number
            -  total-entries number
         -  pending-entries number
         -  total-entries number
   -  proxy-nd
      -  statistics
         -  active-entries number
         -  in-active-entries number
         -  neighbor-origin origin keyword
            -  active-entries number
            -  in-active-entries number
            -  pending-entries number
            -  total-entries number
         -  pending-entries number
         -  total-entries number
   -  statistics
      -  active-entries number
```


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```
      -  failed-entries number
      -  mac-type type keyword
         -  active-entries number
         -  failed-entries number
         -  total-entries number
      -  total-entries number
+  cli
   +  environment
      +  alias name string
         +  command string
      +  basic-prompt string
      +  bottom-toolbar string
      +  cli-engine
         +  completion-display keyword
         +  completion-ignore-case boolean
         +  completion-type keyword
         +  history-filename string
         +  max-history-items number
         +  refresh-interval number
         +  type keyword
         +  vi-editing-mode boolean
      +  commit-options
         +  confirmed boolean
         +  default-operation keyword
      +  complete-on-enter boolean
      +  complete-on-space boolean
      +  complete-on-tab boolean
      +  discard-options
         +  default-operation keyword
      +  key-completer-limit number
      +  network-instance reference
      +  output-format keyword
      +  output-modifier-alias name string
         +  command string
      +  pagination keyword
      +  prompt string
      +  session-idle-timeout number
      +  tools-fallback-unstructured boolean
      +  tools-output-format keyword
      +  yang-models keyword
+  clock
   +  timezone keyword
+  configuration
   +  auto-checkpoint boolean
   +  auto-save boolean
   -  bootconfig
   -  candidate name string
      x  lock
      -  started string
      -  type keyword
      x  unlock
      -  username string
   -  checkpoint id number
      -  comment string
      -  created string
      -  name string
      -  size number
      -  tag string
      -  username string
      -  version string
   -  commit id number
      -  comment string
      -  ended string
      -  name string
```


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```
      -  persist-id string
      -  started string
      -  status keyword
      -  type keyword
      -  username string
   +  idle-timeout number
   -  last-change string
   x  lock
   +  max-candidates number
   +  max-checkpoints number
   +  max-paths-per-subscription-request number
   +  pathz
      +  collect-policy-success-failure-counters boolean
      -  policy instance keyword
         -  created-on string
         -  policy string
         -  version string
      +  use-exclusively boolean
   -  pathz-policy
   +  role name reference
      +  oc-rule path-reference string
         +  action keyword
      +  rule path-reference string
         +  action keyword
   -  session id number
      -  exclusive boolean
      -  name string
      -  started string
      -  type keyword
      -  username string
   +  strict-request-path-verification boolean
   x  unlock
+  control-plane-traffic
   +  input
      +  acl
         +  acl-filter name reference type reference
   +  output
      +  qos
         +  management-protocols-dscp (number | keyword)
+  datapath
   +  forwarding-mode keyword
   +  icmp
      +  rate-limit-per-host
         +  max-burst number
         +  peak-rate number
   +  icmp6
      +  rate-limit-per-host
         +  max-burst number
         +  peak-rate number
   +  secondary-default-lookup
      +  admin-state keyword
      -  chassis-reboot-required boolean
      -  oper-state keyword
   +  statistics
      +  queue
         +  polling-interval number
-  dhcp-relay
+  dhcp-server
   +  admin-state keyword
   +  network-instance name reference
      +  dhcpv4
         +  admin-state keyword
         -  oper-state keyword
         +  options
```


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```
            +  bootfile-name string
            +  custom code number
               +  always-send boolean
               +  encoding identityref
               +  value string
            +  dns-server string
            +  domain-name string
            +  domain-search-list string
            +  hostname string
            +  interface-mtu number
            +  lease-time number
            +  next-server string
            +  ntp-server string
            +  router string
            +  server-id string
            +  static-route destination string
               +  router string
            +  tftp-server-address string
            +  tftp-server-name string
         +  static-allocation
            +  host mac string
               +  ip-address string
               +  options
                  +  bootfile-name string
                  +  custom code number
                     +  always-send boolean
                     +  encoding identityref
                     +  value string
                  +  dns-server string
                  +  domain-name string
                  +  domain-search-list string
                  +  hostname string
                  +  interface-mtu number
                  +  lease-time number
                  +  next-server string
                  +  ntp-server string
                  +  router string
                  +  server-id string
                  +  static-route destination string
                     +  router string
                  +  tftp-server-address string
                  +  tftp-server-name string
            +  relay-information circuit-id string remote-id string
               +  ip-address string
               +  options
                  +  bootfile-name string
                  +  custom code number
                     +  always-send boolean
                     +  encoding identityref
                     +  value string
                  +  dns-server string
                  +  domain-name string
                  +  domain-search-list string
                  +  hostname string
                  +  interface-mtu number
                  +  lease-time number
                  +  next-server string
                  +  ntp-server string
                  +  router string
                  +  server-id string
                  +  static-route destination string
                     +  router string
                  +  tftp-server-address string
                  +  tftp-server-name string
```


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```
         -  statistics
            -  client-packets-discarded number
            -  client-packets-received number
            -  server-packets-sent number
         +  trace-options
            +  trace keyword
      +  dhcpv6
         +  admin-state keyword
         -  oper-state keyword
         +  options
            +  dns-server string
            +  domain-search-list string
         +  static-allocation
            +  host mac string
               +  ip-address string
               +  options
                  +  dns-server string
                  +  domain-search-list string
         -  statistics
            -  client-packets-discarded number
            -  client-packets-received number
            -  server-packets-sent number
         +  trace-options
            +  trace keyword
+  dns-instance name string
   +  host-entry name string
      +  ipv4-address string
      +  ipv6-address string
   +  network-instance reference
   -  oper-state keyword
   +  search-list string
   +  server-list (ipv4-address | ipv6-address)
   +  source-address (ipv4-address | ipv6-address)
-  dot1x
   -  tunnel
      -  statistics
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
+  event-handler
   +  instance name string
      +  admin-state keyword
      +  cron string
      -  last-errored-execution
         -  end-time string
         -  input string
         -  oper-down-reason keyword
         -  oper-down-reason-detail string
         -  output string
         -  start-time string
         -  stdout-stderr string
         -  upython-duration number
      -  last-execution
         -  end-time string
         -  input string
         -  oper-down-reason keyword
         -  oper-down-reason-detail string
         -  output string
         -  start-time string
         -  stdout-stderr string
         -  upython-duration number
      -  oper-state keyword
      +  options
         +  object name string
```


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```
            +  value string
            +  values string
      +  paths string
      -  statistics
         -  execution-count number
         -  execution-errors number
         -  execution-successes number
         -  execution-timeouts number
         -  upython-duration number
      +  trigger-on keyword
      +  upython-script string
   +  run-as-user reference
-  factory-reset
   x  reboot
      i  factory-os
      o  info string
      i  zero-fill
-  features string
+  ftp-server
   +  network-instance name reference
      +  admin-state keyword
      -  oper-state keyword
      +  session-limit number
      +  source-address (ipv4-address | ipv6-address)
      +  timeout number
+  grpc-server name string
   +  admin-state keyword
   +  auth-timeout number
   -  certz
      -  certificate
         -  created-on string
         -  version string
      -  crl
         -  created-on string
         -  version string
      -  ssl-profile-id string
      -  trust-anchor
         -  created-on string
         -  version string
   -  client id number
      -  acctz-starting-point string
      -  election-id string
      -  gnmi
         -  paths id number
            -  mode keyword
            -  path string
            -  sample-interval number
      -  gribi
         -  persistence-mode keyword
      -  p4rt
         -  forwarding-complex
            -  device number
            -  id string
            -  slot number
         -  primary boolean
      -  remote-host (ipv4-address | ipv6-address)
      -  remote-port number
      -  rpc string
      -  start-time string
      -  type keyword
      -  user string
      -  user-agent string
   +  default-tls-profile boolean
   +  gnmi
```


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```
      +  commit-confirmed-timeout number
      +  commit-save boolean
      +  include-defaults-in-config-only-responses boolean
      +  include-key-leaf-in-create-notifications boolean
   -  gnoi
      -  containerz
         -  container id string
            -  hash
               -  hash string
               -  method string
            -  image-name string
            -  labels key string
               -  value string
            -  name string
            -  status keyword
         -  image name string
            -  id string
         -  plugin id string
            -  config string
            -  hash
               -  hash string
               -  method string
            -  instance-name string
         -  volume name string
            -  created string
            -  driver string
            -  labels key string
               -  value string
            -  options key string
               -  value string
      -  healthz
         -  chassis
         -  control slot string
         -  fabric slot number
         -  fan-tray id number
         -  linecard slot number
         -  power-supply id number
         -  transceiver interface string
   +  max-concurrent-streams number
   +  metadata-authentication boolean
   +  network-instance reference
   -  oper-state keyword
   -  pathz
      -  counters
         -  path name string
            -  reads
               -  access-accepts number
               -  access-rejects number
               -  last-access-accept string
               -  last-access-reject string
            -  writes
               -  access-accepts number
               -  access-rejects number
               -  last-access-accept string
               -  last-access-reject string
      -  created-on string
      -  policy string
      -  version string
   +  port number
   +  rate-limit number
   +  services identityref
   +  session-limit number
   +  source-address (ipv4-address | ipv6-address)
   -  statistics
```


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```
      -  access-accepts number
      -  access-rejects number
      x  clear
      -  last-access-accept string
      -  last-access-reject string
      -  rpc name string
         -  access-accepts number
         -  access-rejects number
         -  last-access-accept string
         -  last-access-reject string
   +  timeout number
   +  tls-profile reference
   +  trace-options keyword
   +  unix-socket
      +  admin-state keyword
      +  socket-filename string
      -  socket-path string
   +  yang-models keyword
+  grpc-tunnel
   +  destination name string
      +  address (ipv4-address | ipv6-address)
      +  description string
      +  network-instance reference
      +  port number
      +  tls-profile reference
   +  tunnel name string
      +  admin-state keyword
      +  description string
      +  destination name reference
         +  admin-state keyword
         -  oper-state keyword
         -  oper-state-down-reason string
         +  reconnect-at string
         -  target name string
            -  id string
            -  oper-state keyword
            -  oper-state-down-reason string
            -  type string
      -  oper-state keyword
      -  oper-state-down-reason string
      +  target name string
         +  id
            +  custom
               +  custom string
               +  delimiter string
               +  pattern keyword
            +  mac-address
            +  node-name
            +  user-agent
         +  type
            +  custom
               +  local-address string
               +  network-instance reference
               +  type string
            +  gnmi-gnoi-server reference
            +  gribi-server reference
            +  netconf-server reference
            +  p4-runtime-server reference
            +  ssh-server reference
+  information
   +  contact string
   +  coordinates
      +  height number
      +  latitude decimal-number
```


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```
      +  longitude decimal-number
   -  current-datetime string
   -  description string
   -  last-booted string
   +  location string
   -  up-time string
   -  up-time-counter number
   -  version string
+  ipfix
   +  admin-state keyword
   +  cache name string
      -  data-records number
      +  exporting-process reference
      +  timeout-cache
         -  active-flows number
         +  active-timeout number
         +  idle-timeout number
         +  maximum-flows number
         +  overflow-flush number
         -  unused-cache-entries number
   +  exporting-process name string
      +  destination name string
         +  udp-exporter
            +  destination-ip-address (ipv4-address | ipv6-address)
            +  destination-port number
            +  ipfix-version number
            +  network-instance reference
            -  options-template-refresh-timeout number
            +  source-ip-address (ipv4-address | ipv6-address)
            +  template-refresh-timeout number
            -  transport-session
               -  bytes number
               -  destination-address (ipv4-address | ipv6-address)
               -  destination-port number
               -  discarded-messages number
               -  ipfix-version number
               -  messages number
               -  oper-state keyword
               -  options-templates number
               -  rate number
               -  records number
               -  source-address (ipv4-address | ipv6-address)
               -  source-port number
               -  template
                  -  access-time string
                  -  field
                     -  element-id number
                     -  element-length number
                     -  ie-enterprise-number number
                     -  is-flowKey
                     -  is-scope
                  -  observation-domain-id number
                  -  set-id number
                  -  template-data-records number
                  -  template-discontinuity-time string
                  -  template-id number
               -  templates number
               -  transport-session-discontinuity-time string
               -  transport-session-start-time string
      +  export-mode identityref
      -  exporting-process-id number
      +  options name string
         +  options-timeout number
   -  flow-cache
```


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```
      x  clear
      x  dump-flows
         o  flow-dump string
         i  ipv4
         i  ipv4-multicast
         i  ipv6
         i  ipv6-multicast
         i  mpls
         o  srl-unstructured-output
            o  line string
   +  observation-point name string
      +  interface name string
         +  direction keyword
         -  ifindex number
      +  observation-domain-id number
      +  selection-process reference
   -  oper-state keyword
   +  selection-process name string
      +  cache reference
      +  selector name string
         -  packets-dropped number
         -  packets-observed number
         +  sample-count-based
            +  packet-interval number
            +  packet-space number
         -  selector-discontinuity-time string
+  json-rpc-server
   +  admin-state keyword
   +  commit-confirmed-timeout number
   +  network-instance name reference
      +  http
         +  admin-state keyword
         +  auth-timeout number
         -  oper-state keyword
         +  port number
         +  session-limit number
         +  source-address (ipv4-address | ipv6-address)
         +  use-authentication boolean
      +  https
         +  admin-state keyword
         +  auth-timeout number
         -  oper-state keyword
         +  port number
         +  session-limit number
         +  source-address (ipv4-address | ipv6-address)
         +  tls-profile reference
         +  use-authentication boolean
   +  trace-options keyword
   +  unix-socket
      +  admin-state keyword
      -  oper-state keyword
      +  session-limit number
      -  socket-path string
      +  tls-profile reference
      +  use-authentication boolean
-  l2cp-transparency
   -  efm-oam
   -  elmi
   -  esmc
   -  l2cp-statistics
      -  efm-oam
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
```


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```
      -  elmi
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
      -  esmc
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
      -  lacp
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
      -  last-clear string
      -  lldp
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
      -  ptp
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
      -  total-in-discarded-packets number
      -  total-in-packets number
      -  total-in-trap-to-cpu-packets number
      -  total-in-tunneled-packets number
      -  xstp
         -  in-trap-to-cpu-packets number
         -  in-tunneled-packets number
         -  last-clear string
   -  l2cp-total-statistics
   -  lacp
   -  lldp
   -  ptp
   -  xstp
+  lacp
   +  system-id string
   +  system-priority number
+  license id string
   +  admin-state keyword
   +  data string
   +  description string
   -  entitlements
      -  lawful-intercept boolean
   -  expiration-date string
   -  expired boolean
   -  in-use boolean
   -  issued-date string
   +  preferred boolean
   -  valid boolean
+  lldp
   +  admin-state keyword
   -  chassis-id string
   -  chassis-id-type keyword
   +  hello-timer number
   +  hold-multiplier number
   +  interface name reference
      +  admin-state keyword
      -  neighbor id string
         -  capability name identityref
            -  enabled boolean
         -  chassis-id string
         -  chassis-id-type keyword
         -  custom-tlv type number oui string oui-subtype string
            -  aggregation
```


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```
                - aggregated-port-id number
                - capable boolean
                - port-type identityref
                - status identityref
             - maximum-frame-size number
             - port-id-vlan number
             - ue-link-neg-options
                - link-options
                   - csig-capability identityref
                - version number
             - value binary
             - vlan-id-name-map id number name string
          - first-message string
          - last-update string
          - management-address address string
             - type keyword
          - port-description string
          - port-id (string | binary)
          - port-id-type keyword
          - system-description string
          - system-name string
       - oper-state keyword
       - statistics
          - frame-discard number
          - frame-error-in number
          - frame-error-out number
          - frame-in number
          - frame-out number
          - last-clear string
          - tlv-discard number
          - tlv-unknown number
       + vlan
          + id-name-map id number
             + name string
          + native-vlan number
    + management-address subinterface string
       + type keyword
    - statistics
       - entries-aged-out number
       - frame-discard number
       - frame-error-in number
       - frame-in number
       - frame-out number
       - last-clear string
       - tlv-accepted number
       - tlv-discard number
       - tlv-unknown number
    + suppress-tlv-advertisement identityref
    - system-description string
    - system-name string
    + trace-options keyword
+  load-balancing
    + dynamic
       + default-load-balancing keyword
       + flowset-size keyword
       + inactivity-timer number
       + link-quality-sampling-interval number
       + mode keyword
       + weighting-factor
          + itm-utilization number
          + port-utilization number
          + queue-utilization number
    + hash-options
       + destination-address boolean
```


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```
      +  destination-port boolean
      +  hash-seed (number | keyword)
      +  ipv6-flow-label boolean
      +  mpls-label-stack boolean
      +  per-complex-randomization boolean
      +  protocol boolean
      +  source-address boolean
      +  source-port boolean
      +  terminated-eth-fields boolean
      +  vlan boolean
   +  hash-profile name string
      +  hash-seed number
+  logging
   +  buffer buffer-name string
      +  facility facility-name keyword
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  filter reference
      +  format (string | keyword)
      +  persist number
      +  rotate number
      -  rotations number
      +  size string
      +  subsystem subsystem-name identityref
         +  priority
            +  match-above keyword
            +  match-exact keyword
   +  console
      +  facility facility-name keyword
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  filter reference
      +  format (string | keyword)
      +  subsystem subsystem-name identityref
         +  priority
            +  match-above keyword
            +  match-exact keyword
   +  event-control
      +  subsystem subsystem-name identityref
         +  event event-name string
            -  default-severity keyword
            +  severity keyword
            +  suppress boolean
   +  file file-name string
      +  directory string
      +  facility facility-name keyword
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  filter reference
      +  format (string | keyword)
      +  rotate number
      -  rotations number
      +  size string
      +  subsystem subsystem-name identityref
         +  priority
            +  match-above keyword
            +  match-exact keyword
   +  filter filter-name string
      +  composition-operator keyword
      +  contains string
      +  facility facility-name keyword
```


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```
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  not-contains string
      +  not-prefix string
      +  not-regex string
      +  prefix string
      +  regex string
      +  subsystem subsystem-name identityref
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  tag string
   +  network-instance reference
   +  remote-server host (ipv4 | ipv6-ietf | domain-name)
      +  facility facility-name keyword
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  filter reference
      +  format (string | keyword)
      +  network-instance reference
      +  remote-port number
      +  source-address (ipv4-address | ipv6-address)
      +  subsystem subsystem-name identityref
         +  priority
            +  match-above keyword
            +  match-exact keyword
      +  tls-profile reference
      +  transport keyword
   +  subsystem-facility keyword
   +  use-fqdn boolean
+  maintenance
   +  group name string
      +  maintenance-mode
         +  admin-state keyword
      +  maintenance-profile reference
      +  members
         +  bgp
            +  network-instance name reference
               +  neighbor reference
               +  peer-group reference
   +  profile name string
      +  bgp
         +  export-policy reference
         +  import-policy reference
+  management
   +  openconfig
      +  admin-state keyword
      -  oper-state keyword
+  mirroring
   +  mirroring-instance name string
      +  admin-state keyword
      +  description string
      +  mirror-destination
         +  local string
         +  pcap
            +  capture-type identityref
         +  remote
            +  encap keyword
            +  network-instance reference
            +  tunnel-end-points
               +  admin-state keyword
               +  destination-address (ipv4-address | ipv6-address)
```


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```
               -  oper-down-reason keyword
               -  oper-state keyword
               -  operational-tunnel-id number
               -  operational-tunnel-type identityref
               +  source-address (ipv4-address | ipv6-address)
            -  statistics
               -  egress-mirrored-octets number
               -  egress-mirrored-packets number
               -  ingress-mirrored-octets number
               -  ingress-mirrored-packets number
         +  mirror-source
            +  acl
               +  acl-filter name reference type reference
                  +  entry sequence-id reference
            +  interface name string
               +  direction keyword
            +  subinterface name string
               +  direction keyword
               -  oper-down-reason keyword
               -  oper-state keyword
         -  oper-down-reason keyword
         -  oper-state keyword
+  mpls
   +  label-ranges
      +  dynamic name string
         -  allocated-labels number
         +  end-label number
         -  free-labels number
         +  start-label number
         -  status keyword
         -  user index number
            -  owner identityref
      +  static name string
         -  allocated-labels number
         +  end-label number
         -  free-labels number
         +  shared boolean
         +  start-label number
         -  status keyword
         -  user index number
            -  owner identityref
   +  services
      +  evpn
         +  dynamic-label-block reference
      +  network-instance
         +  dynamic-evpn-inclusive-multicast-label-block reference
         +  dynamic-label-block reference
         +  dynamic-label-blocks
            +  ethernet reference
            +  ethernet-with-control-word reference
            +  evpn-inclusive-multicast reference
            +  evpn-inclusive-multicast-control-word reference
            +  ip reference
+  mtu
   +  default-ip-mtu number
   +  default-l2-mtu number
   +  default-mpls-mtu number
   +  default-port-mtu number
   +  min-path-mtu number
+  multicast
   +  multicast-ids
      -  statistics
         -  current-usage number
         -  maximum-ids number
```


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```
         -  multicast-id-user-type user keyword
            -  current-usage number
            -  total-pending number
         -  total-pending number
   -  replication-ids
      -  statistics
         -  current-usage number
         -  maximum-ids number
         -  total-pending number
-  multicast-forwarding-information-base
   -  multicast-route network-instance reference source (ipv4-address | ipv6-
address) group (ipv4-address | ipv6-address)
      -  last-update string
      -  line-card-replication-index number
+  name
   +  domain-name string
   +  host-name string
+  ndk-server
   +  admin-state keyword
+  netconf-server name string
   +  admin-state keyword
   -  last-oper-change string
   -  oper-down-reason identityref
   -  oper-state keyword
   -  session session-id number
      -  statistics
   +  session-limit number
   +  ssh-server reference
   -  statistics
      -  active-sessions number
      -  session session-id number
         -  action-requests number
         -  commit-requests number
         -  copy-config-requests number
         -  delete-config-requests number
         -  discard-changes-requests number
         -  edit-config-requests number
         -  edit-data-requests number
         -  failed-edit-config-requests number
         -  failed-edit-data-requests number
         -  failed-lock-requests number
         -  get-config-requests number
         -  get-data-requests number
         -  get-requests number
         -  get-schema-requests number
         -  in-bad-hellos number
         -  kill-session-requests number
         -  lock-requests number
         -  process-id number
         -  unlock-requests number
         -  validate-requests number
      -  total-action-requests number
      -  total-close-session-requests number
      -  total-commit-requests number
      -  total-copy-config-requests number
      -  total-delete-config-requests number
      -  total-discard-changes-requests number
      -  total-dropped-sessions number
      -  total-edit-config-requests number
      -  total-edit-data-requests number
      -  total-error-responses number
      -  total-failed-edit-config-requests number
      -  total-failed-edit-data-requests number
      -  total-failed-lock-requests number
```


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```
      -  total-get-config-requests number
      -  total-get-data-requests number
      -  total-get-requests number
      -  total-get-schema-requests number
      -  total-in-bad-hellos number
      -  total-kill-session-requests number
      -  total-lock-requests number
      -  total-requests number
      -  total-responses number
      -  total-unlock-requests number
      -  total-validate-requests number
   +  trace-options
      +  direction keyword
      +  rpc keyword
   +  unix-socket
      -  socket-path string
+  network-instance
   +  protocols
      +  bgp-vpn
         +  bgp-instance id number
            -  oper-down-reason keyword
            +  route-distinguisher
               -  rd (route-distinguisher-type-0 | route-distinguisher-type-1 | route-
distinguisher-type-2 | route-distinguisher-type-2b)
               -  route-distinguisher-origin keyword
            +  route-target
               -  export-route-target-origin keyword
               -  import-route-target-origin keyword
      +  evpn
         +  ethernet-segments
            +  bgp-instance id reference
               +  ethernet-segment name string
                  +  admin-state keyword
                  +  advertise-ifl-host-ad-routes
                     +  bgp-evpn-instance reference
                     +  internal-tags
                        +  set-tag-set reference
                  +  anycast-multi-homing
                     +  ip-address ipv4-address-excluding-all-zero
                  -  association
                     -  network-instance name string
                        -  bgp-instance instance number
                           -  computed-designated-forwarder-candidates
                              -  designated-forwarder-candidate address (ipv4-address | ipv6-
address)
                                 -  add-time string
                                 -  designated-forwarder boolean
                           -  designated-forwarder-activation-start-time string
                           -  designated-forwarder-activation-time number
                           -  designated-forwarder-role-last-change string
                  -  autodiscovery-per-ethernet-segment-routes
                     -  attr-id reference
                     -  esi string
                     -  ethernet-tag-id number
                     -  label
                        -  value number
                        -  value-type keyword
                     -  neighbor (ipv4-address-with-zone | ipv6-address-with-zone)
                     -  path-id number
                     -  route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)
                  +  df-election
                     +  algorithm
                        +  manual-alg
```


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```
                           +  primary-evi-range start-evi number
                              +  end-evi number
                        -  oper-type keyword
                        +  preference-alg
                           +  capabilities
                              +  ac-df keyword
                              +  non-revertive boolean
                           -  oper-do-not-prempt boolean
                           -  oper-preference-value number
                           +  preference-value number
                        +  type keyword
                     +  interface-standby-signaling-on-non-df
                     +  timers
                        +  activation-timer number
                  +  esi string
                  -  esi-label number
                  -  ethernet-segment-routes
                     -  attr-id reference
                     -  esi string
                     -  neighbor (ipv4-address-with-zone | ipv6-address-with-zone)
                     -  originating-router (ipv4-address | ipv6-address)
                     -  path-id number
                     -  route-distinguisher (route-distinguisher-type-0 | route-distinguisher-
type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)
                  +  interface ethernet-interface reference
                  +  layer-3-neighbor-synchronization boolean
                  +  multi-homing-mode keyword
                  +  next-hop l3-next-hop (ipv4-address | ipv6-address)
                     +  evi start number
                  -  oper-down-reason keyword
                  -  oper-esi string
                  -  oper-multi-homing-mode keyword
                  -  oper-state keyword
                  +  routes
                     +  ethernet-segment
                        +  originating-ip (keyword | ipv4-address | ipv6-address)
                     +  next-hop (keyword | ipv4-address | ipv6-address)
                  +  type keyword
                  +  use-esi-label boolean
            +  timers
               +  activation-timer number
               -  boot-remaining-time number
               -  boot-start-time string
               +  boot-timer number
         +  multicast
            +  leave-sync-propagation number
         +  routes
            +  ad-per-evi
               +  ecmp-strict-path-selection
      +  mgmt-stp name string
         +  admin-state keyword
         +  bridge-address string
         -  bridge-id string
         +  bridge-priority number
         -  cist-internal-root-cost number
         -  cist-regional-root string
         -  cist-regional-root-port number
         -  cist-remaining-hop-count number
         -  designated-root string
         +  forward-delay number
         +  hello-time number
         +  hold-count number
         -  hold-time number
         +  interface interface-name string
```


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```
            +  admin-state keyword
            +  bpdu-guard boolean
            -  bpdu-guard-error boolean
            -  bpdu-guard-recovery-time-expires (number | date-and-time-delta)
            -  designated-bridge string
            -  designated-port number
            -  designated-port-num number
            -  designated-port-priority number
            +  edge-port identityref
            -  forward-transitions number
            +  guard keyword
            -  inside-region boolean
            +  interface-ref
               +  interface reference
            +  link-type keyword
            +  mst-instance mst-id reference
               -  designated-bridge string
               -  designated-port number
               -  designated-port-num number
               -  designated-port-priority number
               -  forward-transitions number
               +  mst-path-cost number
               +  mst-port-priority number
               -  oper-bpdu-encap keyword
               -  oper-edge identityref
               -  oper-mst-port-priority number
               -  oper-port-priority number
               -  oper-protocol keyword
               -  oper-state keyword
               -  port-num number
               -  port-role identityref
               -  port-state identityref
            -  oper-bpdu-encap keyword
            -  oper-edge identityref
            -  oper-port-priority number
            -  oper-protocol keyword
            -  oper-state keyword
            +  path-cost number
            -  port-num number
            +  port-number number
            -  port-role identityref
            -  port-state identityref
            +  priority number
            -  statistics
               -  bad-bpdus-received number
               -  cfg-bpdus-received number
               -  cfg-bpdus-transmitted number
               -  mst-bpdus-received number
               -  mst-bpdus-transmitted number
               -  rst-bpdus-received number
               -  rst-bpdus-transmitted number
               -  tc-bit-bpdus-received number
               -  tc-bit-bpdus-transmitted number
               -  tcn-bpdus-received number
               -  tcn-bpdus-transmitted number
         +  max-age number
         +  mode keyword
         +  mst-instance mst-id number
            -  internal-root-cost number
            +  mst-priority number
            -  regional-root string
            -  remaining-hop-count number
            -  root-port number
            +  vlan-range string
```


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```
         +  mst-max-hops number
         +  mst-name string
         +  mst-revision number
         -  oper-forward-delay number
         -  oper-hello-time number
         -  oper-max-age number
         -  oper-state keyword
         -  root-cost number
         -  root-port number
         -  time-since-topology-change string
         -  topology-change-active boolean
         -  topology-changes number
         +  trace-options
            +  trace keyword
      +  vxlan
         +  router-mac-address string
         +  source-vtep-security boolean
+  ntp
   +  admin-state keyword
   +  network-instance reference
   +  ntp-key key-id number
      +  key-type identityref
      +  key-value string
   -  oper-state keyword
   +  server address (ipv4 | ipv6 | domain-name)
      +  iburst boolean
      -  jitter number
      +  key-id reference
      +  network-instance reference
      +  nts boolean
      -  offset number
      -  poll-interval number
      +  prefer boolean
      -  root-delay number
      -  root-dispersion number
      +  source-address (ipv4-address | ipv6-address)
      -  stratum number
      +  tls-profile reference
   +  source-address (ipv4-address | ipv6-address)
   -  synchronized (ipv4 | ipv6 | domain-name | string)
+  ntp-server name string
   +  admin-state keyword
   +  allow-subnet (ipv4-prefix | ipv6-prefix)
   +  local-reference boolean
   +  network-instance reference
   -  oper-state keyword
   +  port number
   +  source-address (ipv4-address | ipv6-address)
+  packet-link-qualification
   +  profile name string
      +  asic-loopback
      +  ntp
         +  end-time string
         +  start-time string
         +  teardown-time string
      +  packet-generator
         +  packet-rate number
         +  packet-size number
      +  rpc
         +  duration number
         +  post-sync-duration number
         +  pre-sync-duration number
         +  setup-duration number
         +  teardown-duration number
```


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```
+  protection-policies
   +  policy protection-policy-name string
      +  revert-timer (number | keyword)
      +  seamless-bfd
         +  desired-minimum-transmit-interval number
         +  detection-multiplier number
         +  hold-down-timer (number | keyword)
         +  mode keyword
         +  threshold number
         +  wait-for-up-timer number
+  protocols
   +  bgp
      +  restart-max-wait number
   +  stp
      +  bpdu-guard-recovery-time (keyword | number)
+  ra-guard-policy name string
   +  action keyword
   +  advertise-prefix-set reference
   +  hop-limit number
   +  managed-config-flag boolean
   +  other-config-flag boolean
   +  router-preference keyword
   +  source-prefix-set reference
+  sflow
   +  admin-state keyword
   +  collector collector-id number
      +  collector-address (ipv4-address | ipv6-address)
      +  network-instance reference
      -  next-hop (ipv4-address | ipv6-address)
      +  port number
      +  source-address (ipv4-address | ipv6-address)
   +  dscp (number | keyword)
   +  egress-sample-rate number
   +  forwarding-class reference
   +  gnpsi-max-datagram-size number
   +  ipv6-udp-checksum keyword
   +  sample-rate number
   +  sample-size number
   +  source-address (ipv4-address | ipv6-address)
   -  statistics
      -  total-egress-samples-taken number
      -  total-ingress-samples-taken number
      -  total-offered-packets number
      -  total-samples-taken number
      -  total-sent-packets number
   +  transport keyword
+  snmp
   +  access-group name string
      +  admin-state keyword
      +  community-entry name string
         +  community string
         +  description string
         +  prefix-list (ipv4-prefix | ipv6-prefix)
      +  description string
      +  security-entry name string
         +  authentication
            +  password string
            +  protocol keyword
         +  description string
         +  privacy
            +  password string
            +  protocol keyword
         +  user string
      +  security-level keyword
```


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```
   +  network-instance name reference
      +  admin-state keyword
      +  engine-id string
      -  error-msg string
      +  listen-address (ipv4-address | ipv6-address)
      -  oper-state keyword
      -  statistics
         -  snmp-in-asn-parse-errs number
         -  snmp-in-bad-community-names number
         -  snmp-in-bad-community-uses number
         -  snmp-in-bad-versions number
         -  snmp-in-gen-errs number
         -  snmp-in-get-nexts number
         -  snmp-in-get-requests number
         -  snmp-in-pkts number
         -  snmp-in-total-req-vars number
         -  snmp-invalid-msgs number
         -  snmp-out-gen-errs number
         -  snmp-out-get-responses number
         -  snmp-out-pkts number
         -  snmp-out-traps number
         -  snmp-silent-drops number
         -  snmp-unknown-pdu-handlers number
         -  snmp-unknown-security-models number
         -  usm-stats-decryption-errors number
         -  usm-stats-not-in-time-windows number
         -  usm-stats-unknown-engine-ids number
         -  usm-stats-unknown-user-names number
         -  usm-stats-unsupported-sec-levels number
         -  usm-stats-wrong-digests number
      +  transport keyword
   x  send
      i  force
      i  network-instance string
      o  srl-unstructured-output
         o  line string
      i  trap string
      i  trigger string
      i  value string
   +  trap-group name string
      +  admin-state keyword
      +  description string
      +  destination name string
         +  address (ipv4-address | ipv6-address)
         +  admin-state keyword
         +  community-entry name string
            +  community string
            +  description string
         +  description string
         +  port number
         +  security-entry name string
            +  authentication
               +  password string
               +  protocol keyword
            +  description string
            +  engine-id string
            +  privacy
               +  password string
               +  protocol keyword
            +  user string
         +  security-level keyword
      +  network-instance reference
      +  source-address (ipv4-address | ipv6-address)
+  ssh-server name string
```


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```
   +  admin-state keyword
   +  allowed-authentication-types keyword
   +  authorized-principal-check-tool keyword
   +  cipher-list identityref
   -  counters
      -  access-accepts number
      -  access-rejects number
      -  last-access-accept string
      -  last-access-reject string
   -  credentialz
      -  host-certificate
         -  created-on string
         -  version string
      -  host-key
         -  created-on string
         -  version string
      -  trusted-user-ca-keys
         -  created-on string
         -  version string
   +  disable-shell boolean
   +  host-key
      +  preserve boolean
      +  type type keyword
         +  certificate string
         +  private-key string
         -  public-key string
   +  kex-list identityref
   +  key-list identityref
   +  mac-list identityref
   +  network-instance reference
   -  oper-state keyword
   +  port number
   +  port-forwarding boolean
   -  protocol-version number
   +  rate-limit number
   +  rekey-limit-data number
   +  rekey-limit-time number
   +  revoked-keys string
   +  source-address (ipv4-address | ipv6-address)
   +  timeout number
   +  trust-anchors string
   +  use-credentialz boolean
-  storage-encryption
   -  primary-secret
      -  last-changed string
      -  present boolean
      x  set-secret
         i  current-secret string
         i  new-secret string
+  sync
   +  freq-clock
      -  active-reference keyword
      -  freq-clock-state keyword
      -  freq-offset decimal-number
      +  network-type keyword
      +  ql-input-threshold keyword
      +  ql-selection boolean
      +  revert boolean
      -  system-ql-value keyword
      +  wait-to-restore number
   +  freq-references
      +  instance instance-number number
         +  admin-state keyword
         -  not-qualified-reason keyword
```


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```
        -  oper-state keyword
        +  priority number
        +  ql-override keyword
        -  ql-value keyword
        -  reference-status keyword
        +  source
           +  interface reference
           +  ptp
  +  one-pps
     +  admin-state keyword
  +  ptp
     +  instance instance-index number
        -  current-ds
           -  mean-delay number
           -  offset-from-master number
           -  steps-removed number
        +  default-ds
           +  announce-receipt-timeout number
           -  clock-identity binary
           -  clock-quality
              -  clock-accuracy number
              -  clock-class number
              -  offset-scaled-log-variance number
           -  current-time
              -  date-time string
              -  time-nano-seconds number
              -  time-seconds number
           +  domain-number number
           -  freq-recovery-engine
              -  frequency-offset decimal-number
              -  last-adjustment-timestamp string
              -  recovery-state keyword
              -  state-last-changed string
              -  statistics
                 -  delay-high-phase-shift number
                 -  delay-too-much-pdv number
                 -  sync-high-phase-shift number
                 -  sync-too-much-pdv number
                 -  time-in-acquiring number
                 -  time-in-holdover number
                 -  time-in-initial number
                 -  time-in-locked number
                 -  time-in-phase-tracking number
           +  instance-enable boolean
           +  instance-type keyword
           +  local-priority number
           +  log-announce-interval number
           +  max-steps-removed number
           -  number-ports number
           +  priority1 number
           +  priority2 number
           -  statistics
              -  anno-msg-rx number
              -  anno-msg-tx number
              -  del-req-msg-rx number
              -  del-req-msg-tx number
              -  del-resp-msg-rx number
              -  del-resp-msg-tx number
              -  delay-high-packet-loss number
              -  delay-packet-loss number
              -  discards
                 -  alternate-master number
                 -  bad-domain number
                 -  max-steps-removed-exceeded number
```


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```
                  - other number
                  - out-of-sequence number
                  - peer-disabled number
               - follow-up-msg-rx number
               - follow-up-msg-tx number
               - multicast-msg-rate
                  - anno-msg-rate-rx decimal-number
                  - anno-msg-rate-tx decimal-number
                  - del-req-msg-rate-rx decimal-number
                  - del-req-msg-rate-tx decimal-number
                  - del-resp-msg-rate-rx decimal-number
                  - del-resp-msg-rate-tx decimal-number
                  - follow-up-msg-rate-rx decimal-number
                  - follow-up-msg-rate-tx decimal-number
                  - other-rate-rx decimal-number
                  - signaling-msg-rate-rx decimal-number
                  - signaling-msg-rate-tx decimal-number
                  - sync-msg-rate-rx decimal-number
                  - sync-msg-rate-tx decimal-number
               - other-rx number
               - signaling-msg-rx number
               - signaling-msg-tx number
               - signaling-uni-neg-tlv
                  - ack-cancel-anno-rx number
                  - ack-cancel-anno-tx number
                  - ack-cancel-delay-resp-rx number
                  - ack-cancel-delay-resp-tx number
                  - ack-cancel-sync-rx number
                  - ack-cancel-sync-tx number
                  - cancel-anno-rx number
                  - cancel-anno-tx number
                  - cancel-delay-resp-rx number
                  - cancel-delay-resp-tx number
                  - cancel-sync-rx number
                  - cancel-sync-tx number
                  - grant-anno-rx number
                  - grant-anno-tx number
                  - grant-delay-resp-rx number
                  - grant-delay-resp-tx number
                  - grant-sync-rx number
                  - grant-sync-tx number
                  - other-tlv number
                  - reject-anno-rx number
                  - reject-anno-tx number
                  - reject-delay-resp-rx number
                  - reject-delay-resp-tx number
                  - reject-sync-rx number
                  - reject-sync-tx number
                  - request-anno-rx number
                  - request-anno-tx number
                  - request-delay-resp-rx number
                  - request-delay-resp-tx number
                  - request-sync-rx number
                  - request-sync-tx number
               - sync-high-packet-loss number
               - sync-msg-rx number
               - sync-msg-tx number
               - sync-packet-loss number
               - unicast-msg-rate
                  - anno-msg-rate-rx decimal-number
                  - anno-msg-rate-tx decimal-number
                  - del-req-msg-rate-rx decimal-number
                  - del-req-msg-rate-tx decimal-number
                  - del-resp-msg-rate-rx decimal-number
```


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```
                - del-resp-msg-rate-tx decimal-number
                - follow-up-msg-rate-rx decimal-number
                - follow-up-msg-rate-tx decimal-number
                - other-rate-rx decimal-number
                - signaling-msg-rate-rx decimal-number
                - signaling-msg-rate-tx decimal-number
                - sync-msg-rate-rx decimal-number
                - sync-msg-rate-tx decimal-number
             - time-recovery-engine
                - last-adjustment number
                - last-adjustment-timestamp string
                - recovery-state keyword
                - state-last-changed string
                - statistics
                   - delay-too-much-pdv number
                   - sync-too-much-pdv number
                   - time-in-acquiring number
                   - time-in-holdover number
                   - time-in-initial number
                   - time-in-locked number
             - two-step-flag boolean
             + within-holdover-spec-timer number
          - parent-ds
             - grandmaster-clock-quality
                - clock-accuracy number
                - clock-class number
                - offset-scaled-log-variance number
             - grandmaster-identity binary
             - grandmaster-priority1 number
             - grandmaster-priority2 number
             - parent-port-identity
                - clock-identity binary
                - port-number number
             - protocol-address
                - ip
                   - ip-address (ipv4-address | ipv6-address)
                   - network-instance reference
                - mac-address string
                - network-protocol identityref
          + port-ds-cfg-ip-list port-index number
             + admin-state keyword
             - announce-receipt-timeout number
             - best-master boolean
             - clock-identity binary
             - grandmaster-clock-quality
                - clock-accuracy number
                - clock-class number
                - offset-scaled-log-variance number
             - grandmaster-identity binary
             - grandmaster-priority1 number
             - grandmaster-priority2 number
             - last-rx-interface reference
             - last-tx-interface reference
             + local-priority number
             - log-announce-interval number
             - log-min-delay-req-interval number
             + log-sync-interval number
             - major-version-number number
             - minor-version-number number
             - parent-clock boolean
             + peer
                + ip-address (ipv4-address | ipv6-address)
                - network-instance reference
             - port-number number
```


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```
            - port-state keyword
            - ptp-port-number number
            - statistics
               - anno-msg-rx number
               - anno-msg-tx number
               - del-req-msg-rx number
               - del-req-msg-tx number
               - del-resp-msg-rx number
               - del-resp-msg-tx number
               - discards
                  - alternate-master number
                  - bad-domain number
                  - max-steps-removed-exceeded number
                  - other number
                  - out-of-sequence number
                  - peer-disabled number
               - follow-up-msg-rx number
               - follow-up-msg-tx number
               - other-rx number
               - signaling-msg-rx number
               - signaling-msg-tx number
               - signaling-uni-neg-tlv
                  - ack-cancel-anno-rx number
                  - ack-cancel-anno-tx number
                  - ack-cancel-delay-resp-rx number
                  - ack-cancel-delay-resp-tx number
                  - ack-cancel-sync-rx number
                  - ack-cancel-sync-tx number
                  - cancel-anno-rx number
                  - cancel-anno-tx number
                  - cancel-delay-resp-rx number
                  - cancel-delay-resp-tx number
                  - cancel-sync-rx number
                  - cancel-sync-tx number
                  - grant-anno-rx number
                  - grant-anno-tx number
                  - grant-delay-resp-rx number
                  - grant-delay-resp-tx number
                  - grant-sync-rx number
                  - grant-sync-tx number
                  - other-tlv number
                  - reject-anno-rx number
                  - reject-anno-tx number
                  - reject-delay-resp-rx number
                  - reject-delay-resp-tx number
                  - reject-sync-rx number
                  - reject-sync-tx number
                  - request-anno-rx number
                  - request-anno-tx number
                  - request-delay-resp-rx number
                  - request-delay-resp-tx number
                  - request-sync-rx number
                  - request-sync-tx number
               - sync-msg-rx number
               - sync-msg-tx number
            - steps-removed number
            - unicast-negotiation
               - rx-announce
                  - duration number
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
               - rx-delay-resp
                  - duration number
```


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```
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
               - rx-sync
                  - duration number
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
               - tx-announce
                  - duration number
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
               - tx-delay-resp
                  - duration number
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
               - tx-sync
                  - duration number
                  - log-interval number
                  - state keyword
                  - time-of-last-grant string
         - port-ds-dsc-ip-list port-index number
            - last-rx-interface reference
            - last-tx-interface reference
            - log-announce-interval number
            - log-min-delay-req-interval number
            - log-sync-interval number
            - major-version-number number
            - minor-version-number number
            - peer
               - ip-address (ipv4-address | ipv6-address)
               - network-instance reference
            - port-state keyword
            - ptp-port-number number
            - statistics
               - anno-msg-rx number
               - anno-msg-tx number
               - del-req-msg-rx number
               - del-req-msg-tx number
               - del-resp-msg-rx number
               - del-resp-msg-tx number
               - discards
                  - alternate-master number
                  - bad-domain number
                  - max-steps-removed-exceeded number
                  - other number
                  - out-of-sequence number
                  - peer-disabled number
               - follow-up-msg-rx number
               - follow-up-msg-tx number
               - other-rx number
               - signaling-msg-rx number
               - signaling-msg-tx number
               - signaling-uni-neg-tlv
                  - ack-cancel-anno-rx number
                  - ack-cancel-anno-tx number
                  - ack-cancel-delay-resp-rx number
                  - ack-cancel-delay-resp-tx number
                  - ack-cancel-sync-rx number
                  - ack-cancel-sync-tx number
                  - cancel-anno-rx number
                  - cancel-anno-tx number
```


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```
                - cancel-delay-resp-rx number
                - cancel-delay-resp-tx number
                - cancel-sync-rx number
                - cancel-sync-tx number
                - grant-anno-rx number
                - grant-anno-tx number
                - grant-delay-resp-rx number
                - grant-delay-resp-tx number
                - grant-sync-rx number
                - grant-sync-tx number
                - other-tlv number
                - reject-anno-rx number
                - reject-anno-tx number
                - reject-delay-resp-rx number
                - reject-delay-resp-tx number
                - reject-sync-rx number
                - reject-sync-tx number
                - request-anno-rx number
                - request-anno-tx number
                - request-delay-resp-rx number
                - request-delay-resp-tx number
                - request-sync-rx number
                - request-sync-tx number
             - sync-msg-rx number
             - sync-msg-tx number
          - unicast-negotiation
             - rx-announce
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
             - rx-delay-resp
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
             - rx-sync
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
             - tx-announce
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
             - tx-delay-resp
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
             - tx-sync
                - duration number
                - log-interval number
                - state keyword
                - time-of-last-grant string
       + port-ds-interface-list port-index number
          + admin-state keyword
          - announce-receipt-timeout number
          - best-master boolean
          + dest-mac keyword
          + interface reference
          + local-priority number
          - log-announce-interval number
```


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```
            +  log-min-delay-req-interval number
            +  log-sync-interval number
            -  major-version-number number
            +  master-only boolean
            -  minor-version-number number
            -  neighbor-count number
            -  neighbor-list clock-identity binary port-number number
               -  mac-address string
               -  parent-clock boolean
               -  rx-message-rate decimal-number
            -  parent-clock boolean
            -  port-state keyword
            -  ptp-port-number number
            -  statistics
               -  anno-msg-rx number
               -  anno-msg-tx number
               -  del-req-msg-rx number
               -  del-req-msg-tx number
               -  del-resp-msg-rx number
               -  del-resp-msg-tx number
               -  discards
                  -  alternate-master number
                  -  bad-domain number
                  -  max-steps-removed-exceeded number
                  -  other number
                  -  out-of-sequence number
                  -  peer-disabled number
               -  follow-up-msg-rx number
               -  follow-up-msg-tx number
               -  other-rx number
               -  signaling-msg-rx number
               -  signaling-msg-tx number
               -  sync-msg-rx number
               -  sync-msg-tx number
         -  time-properties-ds
            -  current-utc-offset number
            -  current-utc-offset-valid boolean
            -  frequency-traceable boolean
            -  leap59 boolean
            -  leap61 boolean
            -  ptp-timescale boolean
            -  time-source keyword
            -  time-traceable boolean
      +  ptp-profile keyword
      +  timing-source-net-inst reference
+  tftp-server
   +  network-instance name reference
      +  admin-state keyword
      -  oper-state keyword
      +  root-directory string
      +  source-address (ipv4-address | ipv6-address)
+  tls
   +  profile name string
      +  authenticate-client boolean
      +  certificate string
      +  certificate-revocation-list string
      -  certz
         -  certificate
            -  created-on string
            -  version string
         -  crl
            -  created-on string
            -  version string
         -  ssl-profile-id string
```


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```
         -  trust-anchor
            -  created-on string
            -  version string
      +  cipher-list identityref
      -  dynamic boolean
      -  expiration string
      -  expired boolean
      +  key string
      +  relaxed-crl-verification boolean
      +  tls-version identityref
      +  tls13
         +  cipher-list identityref
         +  group-list identityref
         +  signature-list identityref
      +  trust-anchor string
      +  use-tpm-devid keyword
      -  valid-after string
+  trace-options keyword
-  transceiver
   -  firmware
+  utilization
   +  acl
      +  resource name identityref
         -  free-entries number
         +  upper-threshold-clear number
         +  upper-threshold-set number
         -  used-entries number
         -  used-high-watermark number
         -  used-last-high-watermark-time string
         -  used-percent number
         -  used-upper-threshold-exceeded boolean
   +  qos
      +  resource name identityref
         -  free-entries number
         +  upper-threshold-clear number
         +  upper-threshold-set number
         -  used-entries number
         -  used-high-watermark number
         -  used-last-high-watermark-time string
         -  used-percent number
         -  used-upper-threshold-exceeded boolean
   +  resource name identityref
      -  free-entries number
      +  upper-threshold-clear number
      +  upper-threshold-set number
      -  used-entries number
      -  used-high-watermark number
      -  used-last-high-watermark-time string
      -  used-percent number
      -  used-upper-threshold-exceeded boolean
```


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11.1 system Descriptions

system

Description Enter the system context

Enclosing container for system management

Context system

Tree system

Configurable True

Platforms Supported on all platforms

aaa

Description Enter the aaa context

Top-level container for AAA services

Context system aaa

Tree aaa

Configurable True

Platforms Supported on all platforms

accounting

Description Enter the accounting context

Top-level container for accounting

Context system aaa accounting

Tree accounting

Configurable True

Platforms Supported on all platforms

accounting-method *reference*

Description Ordered list of server-groups to use for accounting in the system

If accounting fails with one method, the next defined method is tried -- failure of all methods results in the accounting request failing.

Context system aaa accounting accounting-method *reference*

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Tree	accounting-method
Reference	system aaa server-group name *string*
Configurable	True
Platforms	Supported on all platforms

acctz

Description	Enter the acctz context Top-level container for acctz accounting
Context	system aaa accounting acctz
Tree	acctz
Configurable	True
Platforms	Supported on all platforms except ACCOUNTING AND NOT PLATFORM

history-size *number*

Description	Size of the kept accounting events history. Setting a value of 0 disables acctz history
Context	system aaa accounting acctz history-size *number*
Tree	history-size
Range	0 to 100000
Default	1000
Configurable	True
Platforms	Supported on all platforms except ACCOUNTING AND NOT PLATFORM

event event-type *identityref*

Description	List of events subject to accounting
Context	system aaa accounting event event-type *identityref*
Tree	event
Configurable	True
Platforms	Supported on all platforms

event-type *identityref*

Description	The type of activity to record at the accounting server

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Context system aaa accounting event event-type *identityref*

Options
- command

  Specifies interactive command events for AAA accounting

Configurable True

Platforms Supported on all platforms

record *identityref*

Description Type of record to send to the accounting server for this activity type

Context system aaa accounting event event-type *identityref* record *identityref*

Tree record

Options
- start-stop

  Send start and stop records for user activities

  A start record is sent to the accounting server at the beginning of the activity, and a stop record at the end of the activity
- stop

  Send only stop records for user activities

  A stop record is sent to the accounting server when the user activity completes

Configurable True

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Top-level container for global authentication data

Context system aaa authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

admin-user

Description Enter the admin-user context

Enclosing container for admin user

Context system aaa authentication admin-user

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Tree	admin-user
Configurable	True
Platforms	Supported on all platforms

credentialz

Description	Enter the credentialz context Information relating to the active user credentials as provided via Credentialz State is provided by the gNSI Credentialz service, and can be changed using the gNSI.Credentialz.RotateAccountCredentials RPC
Context	system aaa authentication admin-user credentialz
Tree	credentialz
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorized-keys

Description	Enter the authorized-keys context State relating to the Authorized Keys provided via Credentialz
Context	system aaa authentication admin-user credentialz authorized-keys
Tree	authorized-keys
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication admin-user credentialz authorized-keys created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication admin-user credentialz authorized-keys version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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authorized-principals

Description Enter the authorized-principals context

State relating to the Authorized Principals provided via Credentialz

Context system aaa authentication admin-user credentialz authorized-principals

Tree authorized-principals

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication admin-user credentialz authorized-principals created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

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The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication admin-user credentialz authorized-principals version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password

Description Enter the password context

State relating to the Password provided via Credentialz.

Context system aaa authentication admin-user credentialz password

Tree password

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication admin-user credentialz password created-on *string*

Tree created-on

String Length 20 to 32

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version string as provided by the gNSI client at the time of uploading the artifact The maps to the version field within a Entity message in the Credentialz protobuf.
Context	system aaa authentication admin-user credentialz password version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable-user *boolean*

Description	Disable the admin user account When set to true, the admin user is prevented from authenticating to the system via any interface (CLI, SSH, console, gNMI, gNOI, gNSI, gRIBI, JSON-RPC, NETCONF, p4rt). The user-configured password and SSH keys/ principals are not honored while the user is disabled. To retain administrative access while the admin user is disabled, ensure a local user with superuser= true exists or that linuxadmin is not disabled.
Context	system aaa authentication admin-user disable-user *boolean*
Tree	disable-user
Default	false
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-login-attempts *number*

Description	Number of failed login attempts from the user
Context	system aaa authentication admin-user failed-login-attempts *number*
Tree	failed-login-attempts
Default	0
Configurable	False
Platforms	Supported on all platforms

last-failed-login *string*

Description	The date and time of the last login failure from this user
Context	system aaa authentication admin-user last-failed-login *string*
Tree	last-failed-login
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-successful-login *string*

Description	The date and time of the last successful login from this user
Context	system aaa authentication admin-user last-successful-login *string*
Tree	last-successful-login
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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lockout

Description Enter the lockout context

Information relating to the lockout state of this user

Context system aaa authentication admin-user lockout

Tree lockout

Configurable False

Platforms Supported on all platforms

active *boolean*

Description Indicates if a lockout is active for the user

Lockouts can occur after successive failed logins, and can be cleared by 'tools system aaa authentication user <username> unlock'

Context system aaa authentication admin-user lockout active *boolean*

Tree active

Configurable False

Platforms Supported on all platforms

end *string*

Description Indicates the time at which the most recent lockout for this user ended or will end

Context system aaa authentication admin-user lockout end *string*

Tree end

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

start *string*

Description Indicates the time at which the most recent lockout for this user started

Context system aaa authentication admin-user lockout start *string*

Tree start

String Length 20 to 32

Configurable False

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Platforms	Supported on all platforms

password *string*

Description	The admin password, supplied either as cleartext or as a hashed value If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALIU=$r750fMa3ZEA/Di8d IfU2fQ==='.
Context	system aaa authentication admin-user password *string*
Tree	password
Default	yj9T$pNVjOgcNNGIWjBcdDfK/7.$Ir4uYxszxtqzVj5AGi ZvdWJGs.bpLWBJvHON3YgqnC2
Configurable	True
Platforms	Supported on all platforms

password-change-required *boolean*

Description	Indicates if the user must change their password on next login
Context	system aaa authentication admin-user password-change-required *boolean*
Tree	password-change-required
Configurable	False
Platforms	Supported on all platforms

role *reference*

Description	List of roles to assign to this user The most specific rule for a particular role takes precedence. Rules from all user roles are evaluated together, most permissive privilege taking precedence.
Context	system aaa authentication admin-user role *reference*
Tree	role
Reference	system aaa authorization role rolename *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 32

spiffe-ids *string*

Description The SPIFFE ID list for the user, including the spiffe:// URI

This list of IDs is evaluated by TLS-consuming servers (e.g. gNMI, JSON-RPC) that use a TLS profile with authenticate-client set to true.

If a match is found in any incoming offered client certificates, the provider of the certificate is associated with this local user, and given resulting permissions.

Context system aaa authentication admin-user spiffe-ids *string*

Tree spiffe-ids

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssh-key *string*

Description SSH public key(s) for the user

If defined, the user may login to the system over SSH with this key. This should use the SSH public authorized key format.

Context system aaa authentication admin-user ssh-key *string*

Tree ssh-key

Configurable True

Platforms Supported on all platforms

Max. Elements 32

ssh-principals *string*

Description List of principals to associate with this user

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If any of the principals in the list are matched in a SSH client's certificate, and that clients username matches this user, and the certificate is verified, the client will authenticate.

Context system aaa authentication admin-user ssh-principals *string*

Tree ssh-principals

Configurable True

Platforms Supported on all platforms

Max. Elements 32

superuser *boolean*

Description Indicates if the admin user is a superuser

A superuser is granted implicit authorization to all YANG paths, has the ability to execute all CLI plugins, and by default is permitted to access the device through any interface.

Additionally, users with the superuser attribute are able to execute 'sudo' in bash. A user may also be assigned a role or list of roles, but these are only evaluated for service authorization.

Context system aaa authentication admin-user superuser *boolean*

Tree superuser

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

username *string*

Description Assigned username for admin user

Context system aaa authentication admin-user username *string*

Tree username

Default admin

Configurable False

Platforms Supported on all platforms

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authentication-method *reference*

Description	Ordered list of server-groups to be used during user authentication If authentication fails with one method, the next defined method is tried -- failure of all methods results in the user being denied access.
Context	system aaa authentication authentication-method *reference*
Tree	authentication-method
Reference	system aaa server-group name *string*
Configurable	True
Platforms	Supported on all platforms

dynamic-spiffe

Description	Enter the dynamic-spiffe context Dynamic SPIFFE settings
Context	system aaa authentication dynamic-spiffe
Tree	dynamic-spiffe
Configurable	True
Platforms	Supported on all platforms except SPIFFE

allow *boolean*

Description	Accept clients with SPIFFE ID values that are not configured under any local user With this behaviour enabled, when a client using a client certificate containing SPIFFE ID connects the system will accept the client. Otherwise the SPIFFE ID must be configured under some local user. Even if enabled, any client using local user's configured SPIFFE ID will use that user's identity in all operations
Context	system aaa authentication dynamic-spiffe allow *boolean*
Tree	allow
Default	false
Configurable	True
Platforms	Supported on all platforms except SPIFFE

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role *reference*

Description	List of roles to assign to all dynamic SPIFFE clients Dynamic SPIFFE clients are clients authenticated using a client certificate containing SPIFFE ID value that is not configured under any local user. The most specific rule for a particular role takes precedence. Rules from all user roles are evaluated together, most permissive privilege taking precedence.
Context	system aaa authentication dynamic-spiffe role *reference*
Tree	role
Reference	system aaa authorization role rolename *string*
Configurable	True
Platforms	Supported on all platforms except SPIFFE
Max. Elements	32

exit-on-reject *boolean*

Description	Enable/disable exit-on-reject behaviour for authentication attempts With this behaviour enabled, when a reject is received from any server the system will not try further methods, and will reject the user authentication attempt. Default behaviour is to continue trying methods until one accepts the user, or the system runs out of methods to try.
Context	system aaa authentication exit-on-reject *boolean*
Tree	exit-on-reject
Default	false
Configurable	True
Platforms	Supported on all platforms

force-all-user-password-change

Description	Execute the force-all-user-password-change action Set change-on-first-login to true for all users This command will only take effect if the feature change-on-first-login is currently set to true.
Context	system aaa authentication force-all-user-password-change
Tree	force-all-user-password-change
Configurable	True
Note	This is an action command

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Platforms	tools-force-pwd-change and tools-as-modeled-actions-different-io-aaa-mgr

message *string*

Description	Confirmation that all local users will be required to change their password on next login.
Context	system aaa authentication force-all-user-password-change message *string*
Tree	message
Configurable	True
Note	This is an action output
Platforms	tools-force-pwd-change and tools-as-modeled-actions-different-io-aaa-mgr

idle-timeout *number*

Description	Set the idle timeout of all CLI sessions After the timeout is reached, the session is disconnected from the system.
Context	system aaa authentication idle-timeout *number*
Tree	idle-timeout
Default	600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

linuxadmin-user

Description	Enter the linuxadmin-user context Enclosing container for linuxadmin user
Context	system aaa authentication linuxadmin-user
Tree	linuxadmin-user
Configurable	True
Platforms	Supported on all platforms

credentialz

Description	Enter the credentialz context Information relating to the active user credentials as provided via Credentialz

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State is provided by the gNSI Credentialz service, and can be changed using the gNSI.Credentialz.RotateAccountCredentials RPC

Context system aaa authentication linuxadmin-user credentialz

Tree credentialz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorized-keys

Description Enter the authorized-keys context

State relating to the Authorized Keys provided via Credentialz

Context system aaa authentication linuxadmin-user credentialz authorized-keys

Tree authorized-keys

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz authorized-keys created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz authorized-keys version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorized-principals

Description Enter the authorized-principals context

State relating to the Authorized Principals provided via Credentialz

Context system aaa authentication linuxadmin-user credentialz authorized-principals

Tree authorized-principals

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz authorized-principals created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz authorized-principals version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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password

Description Enter the password context

State relating to the Password provided via Credentialz.

Context system aaa authentication linuxadmin-user credentialz password

Tree password

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz password created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

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The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication linuxadmin-user credentialz password version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable-user *boolean*

Description Disable the linuxadmin user account for external login

When set to true, the linuxadmin user is prevented from authenticating to the system via any external interface (CLI, SSH, console, gNMI, gNOI, gNSI, gRIBI, JSON-RPC, NETCONF, p4rt). The user-configured password and SSH keys/principals are not honored while the user is disabled, and the linuxadmin password entry in /etc/shadow is locked.

Context system aaa authentication linuxadmin-user disable-user *boolean*

Tree disable-user

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password *string*

Description The linuxadmin password, supplied either as cleartext or as a hashed value

If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example

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	'6c66a15569d3f5952$kA2WPt9iqR5uMbaCUBNxsjKyXROQFd JtV1HX0CFY9wk7F326/yB3h.dERX9cH7YpeJ1N872hjzTb2tlaZFwwg0'.
Context	system aaa authentication linuxadmin-user password *string*
Tree	password
Default	yj9T$l/vKPXdvWQKKPH8qPzbLs0$Hz98mmTg.j87QMZl TqY2ieGWa3Ed7kzHkp5z6kROEy4
Configurable	True
Platforms	Supported on all platforms

ssh-key *string*

Description	SSH public key(s) for the user If defined, the user may login to the system over SSH with this key. This should use the SSH public authorized key format.
Context	system aaa authentication linuxadmin-user ssh-key *string*
Tree	ssh-key
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

ssh-principals *string*

Description	List of principals to associate with this user If any of the principals in the list are matched in a SSH client's certificate, and that clients username matches this user, and the certificate is verified, the client will authenticate.
Context	system aaa authentication linuxadmin-user ssh-principals *string*
Tree	ssh-principals
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

username *string*

Description	Assigned username for linuxadmin user
Context	system aaa authentication linuxadmin-user username *string*
Tree	username

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Default	linuxadmin
Configurable	False
Platforms	Supported on all platforms

local-linux-users

Description	Enter the local-linux-users context Enclosing container for local linux users
Context	system aaa authentication local-linux-users
Tree	local-linux-users
Configurable	True
Platforms	Supported on all platforms

allow-fallback *boolean*

Description	enable linux users login in case aaa_mgr is not working
Context	system aaa authentication local-linux-users allow-fallback *boolean*
Tree	allow-fallback
Default	false
Configurable	True
Platforms	Supported on all platforms

disable-login *keyword*

Description	disable the loging for all local linux users via remote login or console
Context	system aaa authentication local-linux-users disable-login *keyword*
Tree	disable-login
Options	• remote • console
Configurable	True
Platforms	Supported on all platforms

login-method

Description	Enter the login-method context Authentication methods for console login and remote (e.g. SSH) access

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Support for traditional password or GLOME (Generic Low Overhead Message Exchange) authentication for Linux users.

Context system aaa authentication login-method

Tree login-method

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

console *keyword*

Description Authentication method for console login access

Context system aaa authentication login-method console *keyword*

Tree console

Default password

Options

- password
- glome

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

glome-key *string*

Description GLOME public key

Used to provide an authorization challenge and verify the response for authenticating a client when console or remote login-method is set to 'glome'.

Context system aaa authentication login-method glome-key *string*

Tree glome-key

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote *keyword*

Description Authentication method for remote (e.g. SSH) access

Context system aaa authentication login-method remote *keyword*

Tree remote

Default password

Options

- password
- glome

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password

Description Enter the password context

Top-level container for policies around user passwords

Context system aaa authentication password

Tree password

Configurable True

Platforms Supported on all platforms

aging *number*

Description Expire user passwords after this period

A value of 0 means that the user passwords do not expire

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Context	system aaa authentication password aging *number*
Tree	aging
Range	0 to 500
Default	0
Units	days
Configurable	True
Platforms	Supported on all platforms

change-on-first-login *boolean*

Description	Enable or disable a user being forced to change their password on first time login
Context	system aaa authentication password change-on-first-login *boolean*
Tree	change-on-first-login
Default	false
Configurable	True
Platforms	Supported on all platforms

complexity-rules

Description	Enter the complexity-rules context Top-level container for password complexity rules
Context	system aaa authentication password complexity-rules
Tree	complexity-rules
Configurable	True
Platforms	Supported on all platforms

allow-username *boolean*

Description	Enable or disable using username as part of the user password
Context	system aaa authentication password complexity-rules allow-username *boolean*
Tree	allow-username
Default	true
Configurable	True
Platforms	Supported on all platforms

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disallow-sequence-keys *number*

Description	The minimum length of disallowed sequential characters to appear (letters or numbers) from left to right, right to left, down to up-right/left, or up to down-right/left.
Context	system aaa authentication password complexity-rules disallow-sequence-keys *number*
Tree	disallow-sequence-keys
Range	0 | 2 to 8
Default	0
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-length *number*

Description	The maximum length of the password in bytes for local users, including admin and linuxadmin
Context	system aaa authentication password complexity-rules maximum-length *number*
Tree	maximum-length
Range	1 to 1023
Default	1023
Configurable	True
Platforms	Supported on all platforms

minimum-length *number*

Description	The minimum length of the password in bytes for local users, including admin and linuxadmin
Context	system aaa authentication password complexity-rules minimum-length *number*
Tree	minimum-length
Range	1 to 12

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Default	1
Configurable	True
Platforms	Supported on all platforms

minimum-lowercase *number*

Description	The minimum lowercase characters from (a-z) that the user password must include A value of 0 results in no minimum-lowercase being enforced.
Context	system aaa authentication password complexity-rules minimum-lowercase *number*
Tree	minimum-lowercase
Range	0 to 10
Default	0
Configurable	True
Platforms	Supported on all platforms

minimum-numeric *number*

Description	The minimum numeric digits that the user password must include A value of 0 results in no minimum-numeric being enforced.
Context	system aaa authentication password complexity-rules minimum-numeric *number*
Tree	minimum-numeric
Range	0 to 10
Default	0
Configurable	True
Platforms	Supported on all platforms

minimum-special-character *number*

Description	The minimum special characters that the user password must include A value of 0 results in no minimum-special-character being enforced.
Context	system aaa authentication password complexity-rules minimum-special-character *number*
Tree	minimum-special-character

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Range	0 to 10
Default	0
Configurable	True
Platforms	Supported on all platforms

minimum-uppercase *number*

Description	The minimum uppercase characters from (A-Z) that the user password must include A value of 0 results in no minimum-uppercase being enforced.
Context	system aaa authentication password complexity-rules minimum-uppercase *number*
Tree	minimum-uppercase
Range	0 to 10
Default	0
Configurable	True
Platforms	Supported on all platforms

repeated-characters *number*

Description	Number of times same character can repeat consecutively
Context	system aaa authentication password complexity-rules repeated-characters *number*
Tree	repeated-characters
Range	0 | 2 to 8
Default	0
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash-method *keyword*

Description	The hash algorithm for the passwords entered as plain text

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If no value is configured, then Yescrypt will be used as the hash algorithm unless overriden for specific leafs using the srl_nokia-extensions:hash-algorithm yang extension. The Argon2 (ar2) hash algorithm is not supported for the linuxadmin user and if selected then the linuxadmin password will be hashed using Yescrypt.

Context system aaa authentication password hash-method *keyword*

Tree hash-method

Options

- ar2

  The Argon2 password hashing algorithm
- sha2

  The SHA512 password hashing algorithm
- yescrypt

  The Yescrypt password hashing algorithm

Configurable True

Platforms Supported on all platforms

history *number*

Description Defines how many previous passwords a new password is matched against, such that a new password can't be one of the previous n passwords

Context system aaa authentication password history *number*

Tree history

Range 0 to 20

Default 0

Configurable True

Platforms Supported on all platforms

lockout-policy

Description Enter the lockout-policy context

Top-level container for lockout policy

Context system aaa authentication password lockout-policy

Tree lockout-policy

Configurable True

Platforms Supported on all platforms

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attempts *number*

Description	The number of failed login attempts that will lock the account A value of 0 means unlimited number of failed login attempts is allowed
Context	system aaa authentication password lockout-policy attempts *number*
Tree	attempts
Range	0 to 64
Default	0
Configurable	True
Platforms	Supported on all platforms

lockout *number*

Description	The time duration in minutes the user account will be locked out A value of 0 means that the user account will be locked out/disabled indefinitely
Context	system aaa authentication password lockout-policy lockout *number*
Tree	lockout
Range	0 to 1440
Default	15
Units	minutes
Configurable	True
Platforms	Supported on all platforms

time *number*

Description	The time period in minutes within which the failed login attempts occur
Context	system aaa authentication password lockout-policy time *number*
Tree	time
Range	0 to 1440
Default	1
Units	minutes
Configurable	True
Platforms	Supported on all platforms

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require-ntp-sync *boolean*

Description	Enable or disable dependence of password aging and user lockout on NTP sync status
Context	system aaa authentication password require-ntp-sync *boolean*
Tree	require-ntp-sync
Default	true
Configurable	True
Platforms	Supported on all platforms except IMGMT

session id *number*

Description	List of active sessions in the system
Context	system aaa authentication session id *number*
Tree	session
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	System generated session ID
Context	system aaa authentication session id *number*
Configurable	False
Platforms	Supported on all platforms

authentication-method *string*

Description	Authentication method that authorized the user (the server-group name or local)
Context	system aaa authentication session id *number* authentication-method *string*
Tree	authentication-method
Configurable	False
Platforms	Supported on all platforms

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login-time *string*

Description	Time the user logged in
Context	system aaa authentication session id *number* login-time *string*
Tree	login-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

network-instance *string*

Description	Network instance
Context	system aaa authentication session id *number* network-instance *string*
Tree	network-instance
Configurable	False
Platforms	Supported on all platforms except IMGMT

pid *number*

Description	Process identifier
Context	system aaa authentication session id *number* pid *number*
Tree	pid
Configurable	False
Platforms	Supported on all platforms

priv-lvl *number*

Description	TACACS+ authorization priv-lvl (if TACACS+ authorization is enabled)
Context	system aaa authentication session id *number* priv-lvl *number*
Tree	priv-lvl
Configurable	False
Platforms	Supported on all platforms

remote-host *string*

Description	Remote host of the session

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Context	system aaa authentication session id *number* remote-host *string*
Tree	remote-host
Configurable	False
Platforms	Supported on all platforms

role *string*

Description	List of roles assigned to this user
Context	system aaa authentication session id *number* role *string*
Tree	role
Configurable	False
Platforms	Supported on all platforms

service-name *string*

Description	Service name that called login for the session
Context	system aaa authentication session id *number* service-name *string*
Tree	service-name
Configurable	False
Platforms	Supported on all platforms

spiffe-id *string*

Description	SPIFFE ID linked to the session
Context	system aaa authentication session id *number* spiffe-id *string*
Tree	spiffe-id
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tty-name *string*

Description	Terminal type
Context	system aaa authentication session id *number* tty-name *string*
Tree	tty-name
Configurable	False
Platforms	Supported on all platforms

username *string*

Description	Username linked to the session
Context	system aaa authentication session id *number* username *string*
Tree	username
Configurable	False
Platforms	Supported on all platforms

ssh-connection-limit *number*

Description	Maximum number of concurrent SSH connections allowed to the system When configured, limits the total number of simultaneous SSH, NETCONF over SSH, and SCP connections. Once the limit is exceeded, no further SSH, NETCONF, or SCP logins are permitted until an existing connection is closed. By default there is no limit. Console login is not restricted.
Context	system aaa authentication ssh-connection-limit *number*
Tree	ssh-connection-limit
Range	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user username *string*

Description	List of local users configured on the system

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Context	system aaa authentication user username *string*
Tree	user
Configurable	True
Platforms	Supported on all platforms
Max. Elements	128

username *string*

Description	Assigned username for this user
Context	system aaa authentication user username *string*
String Length	1 to 32
Configurable	True
Platforms	Supported on all platforms

credentialz

Description	Enter the credentialz context Information relating to the active user credentials as provided via Credentialz State is provided by the gNSI Credentialz service, and can be changed using the gNSI.Credentialz.RotateAccountCredentials RPC
Context	system aaa authentication user username *string* credentialz
Tree	credentialz
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorized-keys

Description	Enter the authorized-keys context State relating to the Authorized Keys provided via Credentialz
Context	system aaa authentication user username *string* credentialz authorized-keys
Tree	authorized-keys

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description	The created on timestamp as provided by the gNSI client at the time of uploading the artifact The maps to the created_on field within a Entity message in the Credentialz protobuf.
Context	system aaa authentication user username *string* credentialz authorized-keys created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version string as provided by the gNSI client at the time of uploading the artifact The maps to the version field within a Entity message in the Credentialz protobuf.
Context	system aaa authentication user username *string* credentialz authorized-keys version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorized-principals

Description Enter the authorized-principals context

State relating to the Authorized Principals provided via Credentialz

Context system aaa authentication user username *string* credentialz authorized-principals

Tree authorized-principals

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system aaa authentication user username *string* credentialz authorized-principals created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system aaa authentication user username *string* credentialz authorized-principals version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password

Description Enter the password context

State relating to the Password provided via Credentialz.

Context system aaa authentication user username *string* credentialz password

Tree password

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

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Context	system aaa authentication user username *string* credentialz password created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version string as provided by the gNSI client at the time of uploading the artifact The maps to the version field within a Entity message in the Credentialz protobuf.
Context	system aaa authentication user username *string* credentialz password version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-login-attempts *number*

Description	Number of failed login attempts from the user
Context	system aaa authentication user username *string* failed-login-attempts *number*
Tree	failed-login-attempts
Default	0
Configurable	False

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Platforms	Supported on all platforms

force-password-change

Description	Execute the force-password-change action Set change-on-first-login to true for this user This command will only take effect if the feature change-on-first-login is currently set to true.
Context	system aaa authentication user username *string* force-password-change
Tree	force-password-change
Configurable	True
Note	This is an action command
Platforms	tools-force-pwd-change and tools-as-modeled-actions-different-io-aaa-mgr

message *string*

Description	Confirmation that the given user will be required to change their password on next login.
Context	system aaa authentication user username *string* force-password-change message *string*
Tree	message
Configurable	True
Note	This is an action output
Platforms	tools-force-pwd-change and tools-as-modeled-actions-different-io-aaa-mgr

last-failed-login *string*

Description	The date and time of the last login failure from this user
Context	system aaa authentication user username *string* last-failed-login *string*
Tree	last-failed-login
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-successful-login *string*

Description	The date and time of the last successful login from this user

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Context	system aaa authentication user username *string* last-successful-login *string*
Tree	last-successful-login
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

lockout

Description	Enter the lockout context Information relating to the lockout state of this user
Context	system aaa authentication user username *string* lockout
Tree	lockout
Configurable	False
Platforms	Supported on all platforms

active *boolean*

Description	Indicates if a lockout is active for the user Lockouts can occur after successive failed logins, and can be cleared by 'tools system aaa authentication user <username> unlock'
Context	system aaa authentication user username *string* lockout active *boolean*
Tree	active
Configurable	False
Platforms	Supported on all platforms

end *string*

Description	Indicates the time at which the most recent lockout for this user ended or will end
Context	system aaa authentication user username *string* lockout end *string*
Tree	end
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

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start *string*

Description	Indicates the time at which the most recent lockout for this user started
Context	system aaa authentication user username *string* lockout start *string*
Tree	start
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

password *string*

Description	The user password, supplied either as cleartext or as a hashed value If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALlU=$r750fMa3ZEA/Di8d IfU2fQ==='.
Context	system aaa authentication user username *string* password *string*
Tree	password
Configurable	True
Platforms	Supported on all platforms

password-change-required *boolean*

Description	Indicates if the user must change their password on next login
Context	system aaa authentication user username *string* password-change-required *boolean*
Tree	password-change-required
Configurable	False
Platforms	Supported on all platforms

role *reference*

Description	List of roles to assign to this user The most specific rule for a particular role takes precedence. Rules from all user roles are evaluated together, most permissive privilege taking precedence.
Context	system aaa authentication user username *string* role *reference*

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Tree	role
Reference	system aaa authorization role rolename *string*
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

spiffe-ids *string*

Description	The SPIFFE ID list for the user, including the spiffe:// URI This list of IDs is evaluated by TLS-consuming servers (e.g. gNMI, JSON-RPC) that use a TLS profile with authenticate-client set to true. If a match is found in any incoming offered client certificates, the provider of the certificate is associated with this local user, and given resulting permissions.
Context	system aaa authentication user username *string* spiffe-ids *string*
Tree	spiffe-ids
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssh-key *string*

Description	SSH public key(s) for the user If defined, the user may login to the system over SSH with this key. This should use the SSH public authorized key format.
Context	system aaa authentication user username *string* ssh-key *string*
Tree	ssh-key
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

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ssh-principals *string*

Description List of principals to associate with this user

If any of the principals in the list are matched in a SSH client's certificate, and that clients username matches this user, and the certificate is verified, the client will authenticate.

Context system aaa authentication user username *string* ssh-principals *string*

Tree ssh-principals

Configurable True

Platforms Supported on all platforms

Max. Elements 32

superuser *boolean*

Description Indicates that this user is a superuser

A superuser is granted implicit authorization to all YANG paths, has the ability to execute all CLI plugins, and by default is permitted to access the device through any interface.

Additionally, users with the superuser attribute are able to execute 'sudo' in bash. A user may also be assigned a role or list of roles, but these are only evaluated for service authorization.

Context system aaa authentication user username *string* superuser *boolean*

Tree superuser

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authorization

Description Enter the authorization context

Top-level container for authorization configuration and operational state data

Context system aaa authorization

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Tree	authorization
Configurable	True
Platforms	Supported on all platforms

authz-policy

Description	Enter the authz-policy context Information relating to the active gRPC authorization policy This policy is provided by the gNSI gRPC service, and can be changed using the gNSI.Authz.Rotate RPC
Context	system aaa authorization authz-policy
Tree	authz-policy
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

counters

Description	Enter the counters context A collection of counters collected by the gNSI.authz module.
Context	system aaa authorization authz-policy counters
Tree	counters
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rpc name *string*

Description A collection of counters collected by the gNSI.authz module for a RPC identified by the `name`.

Context system aaa authorization authz-policy counters rpc name *string*

Tree rpc

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the RPC the counters were collected for.

Context system aaa authorization authz-policy counters rpc name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description The total number of times the gNSI.authz module allowed access to a RPC.

Context system aaa authorization authz-policy counters rpc name *string* access-accepts *number*

Tree access-accepts

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-rejects *number*

Description The total number of times the gNSI.authz module denied access to a RPC.

Context system aaa authorization authz-policy counters rpc name *string* access-rejects *number*

Tree access-rejects

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-accept *string*

Description A timestamp of the last time the gNSI.authz allowed access to a RPC.

Context system aaa authorization authz-policy counters rpc name *string* last-access-accept *string*

Tree last-access-accept

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description A timestamp of the last time the gNSI.authz denied access to a RPC.

Context system aaa authorization authz-policy counters rpc name *string* last-access-reject *string*

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Tree	last-access-reject
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description	The created on timestamp as provided by the gNSI client at the time of uploading the policy This maps to the created_on field within a UploadRequest message in the Authz protobuf.
Context	system aaa authorization authz-policy created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy *string*

Description	The policy definition This JSON string contains the full gRPC authorization rules conforming to the gRPC authorization policy schema. This maps to the policy field within a UploadRequest message in the Authz protobuf.
Context	system aaa authorization authz-policy policy *string*
Tree	policy
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version string as provided by the gNSI client at the time of uploading the policy The maps to the version field within a UploadRequest message in the Authz protobuf.
Context	system aaa authorization authz-policy version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

role rolename *string*

Description	List of local roles configured on the system
Context	system aaa authorization role rolename *string*
Tree	role
Configurable	True
Platforms	Supported on all platforms

rolename *string*

Description	Assigned rolename for this role
Context	system aaa authorization role rolename *string*
String Length	1 to 255
Configurable	True

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Platforms Supported on all platforms

cli

Description Enter the cli context

Top-level container for cli plugin configuration

Context system aaa authorization role rolename *string* cli

Tree cli

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allow-command-list *string*

Description List of cli commands that are allowed for this role

Python style regular expressions are supported. Every item is left anchored (it matches from the beginning of line). Empty allow-command-list means anything that is not in deny-command-list is allowed. If both lists are empty then everything is allowed.

Context system aaa authorization role rolename *string* cli allow-command-list *string*

Tree allow-command-list

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 100

deny-command-list *string*

Description List of cli commands that are denied for this role

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Python style regular expressions are supported. Every item is left anchored (it matches from the beginning of line). Empty deny-command-list means anything that is not in allow-command-list is denied. If both lists are empty then everything is allowed.

Context system aaa authorization role rolename *string* cli deny-command-list *string*

Tree deny-command-list

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 100

load-global-plugins *boolean*

Description Specifies whether cli should load plugins from global plugin directory (from /etc/opt/srlinux/cli/plugins/).

Context system aaa authorization role rolename *string* cli load-global-plugins *boolean*

Tree load-global-plugins

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

load-user-plugins *boolean*

Description Specifies whether cli should load plugins from user home directory (from ~/cli/plugins/).

Context system aaa authorization role rolename *string* cli load-user-plugins *boolean*

Tree load-user-plugins

Default true

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

netconf

Description Enter the netconf context

Top-level container for netconf plugin configuration

Context system aaa authorization role rolename *string* netconf

Tree netconf

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-operations *keyword*

Description List of netconf operation, that are allowed for this role. Rest of the operations are denied.

Context system aaa authorization role rolename *string* netconf allowed-operations *keyword*

Tree allowed-operations

Options

- action
- cancel-commit
- close-session
- commit
- copy-config
- delete-config
- discard-changes
- edit-config

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- edit-data
- get
- get-config
- get-data
- get-schema
- kill-session
- lock
- unlock
- validate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

services *keyword*

Description Services that members of this role are authorized for

Services are additive, if a user is a member of multiple roles, the available services are merged.

Context system aaa authorization role rolename *string* services *keyword*

Tree services

Options

- cli
- gnmi
- gnoi
- gnpsi
- gnsi
- gribi
- netconf
- p4rt
- json-rpc
- ftp
- grpc-channelz
- grpc-reflection

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Configurable	True
Platforms	Supported on all platforms

superuser *boolean*

Description	Indicates if users with this role are given superuser A superuser is granted implicit authorization to all YANG paths, has the ability to execute all CLI plugins, and by default is permitted to access the device through any interface. Additionally, users with the superuser attribute are able to execute 'sudo' in bash. A user may also be assigned a role or list of roles, but these are only evaluated for service authorization.
Context	system aaa authorization role rolename *string* superuser *boolean*
Tree	superuser
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tacacs

Description	Enter the tacacs context Top-level container for configuration relating to TACACS+ interworking with roles
Context	system aaa authorization role rolename *string* tacacs
Tree	tacacs
Configurable	True
Platforms	Supported on all platforms

priv-lvl *number*

Description	The TACACS+ priv-lvl to map to this role

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All roles matching each specific priv-lvl, and their lessers are merged together to create the final ruleset applied to the user.

Context system aaa authorization role rolename *string* tacacs priv-lvl *number*

Tree priv-lvl

Range 0 to 15

Configurable True

Platforms Supported on all platforms

server-group name *string*

Description List of AAA server-groups in the system

Each server group specifies a type, of which all servers must use. If using the 'local' type, then no servers may be specified.

Context system aaa server-group name *string*

Tree server-group

Configurable True

Platforms Supported on all platforms

Max. Elements 3

name *string*

Description User defined name for the server group

Context system aaa server-group name *string*

String Length 1 to 255

Configurable True

Platforms Supported on all platforms

health-check *(number | keyword)*

Description RADIUS and TACACS+ health check interval

Context system aaa server-group name *string* health-check *(number | keyword)*

Tree health-check

Range 6 to 1500

Default 30

Units seconds

Options

- none

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details the operational state of the server group

A server group is defined as being down if all servers in the server group are down.

Context system aaa server-group name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

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Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server address *(ipv4 | ipv6 | domain-name)*

Description List of AAA servers to use within this server-group

Servers are tried in a round-robin fashion, with the first server always being tried if it is operationally available

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)*

Tree server

Configurable True

Platforms Supported on all platforms

Max. Elements 5

address *(ipv4 | ipv6 | domain-name)*

Description Address or domain name used to reach the server

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)*

String Length 1 to 253

Configurable True

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Platforms Supported on all platforms

name *string*

Description User defined name assigned to the server

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* name *string*

Tree name

String Length 1 to 255

Configurable True

Platforms Supported on all platforms

network-instance *reference*

Description Reference to a configured network-instance used for reachability to the server

This network-instance must already exist in the system, and different servers within the same server-group may use difference network-instances for connectivity.

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* network-instance *reference*

Tree network-instance

Reference network-instance name *string*

Configurable True

Platforms Supported on all platforms except IMGMT

oper-state *keyword*

Description Details the operational state of the server

A server is defined as being down if it fails to respond before the timeout period, or if a path towards the server is not available.

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational

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- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

radius

Description Enter the radius context

Top-level container for RADIUS server data

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius

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Tree	radius
Configurable	True
Platforms	Supported on all platforms

acct-port *number*

Description	Port number for accounting requests
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius acct-port *number*
Tree	acct-port
Range	0 to 65535
Default	1813
Configurable	True
Platforms	Supported on all platforms

auth-port *number*

Description	Port number for authentication requests
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius auth-port *number*
Tree	auth-port
Range	0 to 65535
Default	1812
Configurable	True
Platforms	Supported on all platforms

retransmit-attempts *number*

Description	Number of times the system may send a request to the unresponsive server
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius retransmit-attempts *number*
Tree	retransmit-attempts
Default	3
Configurable	True
Platforms	Supported on all platforms

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secret-key *string*

Description	The unencrypted shared key used between the system and server, up to 64 characters cleartext
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius secret-key *string*
Tree	secret-key
Configurable	True
Platforms	Supported on all platforms

source-address *(ipv4-address \| ipv6-address)*

Description	Source IP address to use in messages to the RADIUS server
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* radius source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except SOURCE

statistics

Description	Enter the statistics context Enclosing container for server statistics
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

accounting-connection-failures *number*

Description	Number of accounting connection failures
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics accounting-connection-failures *number*
Tree	accounting-connection-failures
Default	0
Configurable	False

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Platforms	Supported on all platforms

accounting-rejects *number*

Description	Number of accounting rejections
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics accounting-rejects *number*
Tree	accounting-rejects
Default	0
Configurable	False
Platforms	Supported on all platforms

accounting-success *number*

Description	Number of accounting successes
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics accounting-success *number*
Tree	accounting-success
Default	0
Configurable	False
Platforms	Supported on all platforms

authorization-connection-failures *number*

Description	Number of authorization connection failures
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics authorization-connection-failures *number*
Tree	authorization-connection-failures
Default	0
Configurable	False
Platforms	Supported on all platforms

authorization-rejects *number*

Description	Number of authorization rejections
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics authorization-rejects *number*

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Tree	authorization-rejects
Default	0
Configurable	False
Platforms	Supported on all platforms

authorization-success *number*

Description	Number of authorization successes
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics authorization-success *number*
Tree	authorization-success
Default	0
Configurable	False
Platforms	Supported on all platforms

invalid-vsas *number*

Description	Number of invalid VSAs received
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics invalid-vsas *number*
Tree	invalid-vsas
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

login-connection-failures *number*

Description	Number of login connection failures
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics login-connection-failures *number*
Tree	login-connection-failures
Default	0

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Configurable	False
Platforms	Supported on all platforms

login-rejects *number*

Description	Number of login rejections
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics login-rejects *number*
Tree	login-rejects
Default	0
Configurable	False
Platforms	Supported on all platforms

login-success *number*

Description	Number of login successes
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics login-success *number*
Tree	login-success
Default	0
Configurable	False
Platforms	Supported on all platforms

malformed-vsas *number*

Description	Number of malformed VSAs received
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics malformed-vsas *number*
Tree	malformed-vsas
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tls-error *keyword*

Description Reason for unsuccessful setup using the authentication method 'tls-profile'.

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics tls-error *keyword*

Tree tls-error

Options

- internal
- no-route
- timeout
- handshake-failure
- closed-by-remote
- tls-profile-disabled

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unknown-vsas *number*

Description Number of unknown VSAs received

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics unknown-vsas *number*

Tree unknown-vsas

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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valid-vsas *number*

Description Number of valid VSAs received

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* statistics valid-vsas *number*

Tree valid-vsas

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tacacs

Description Enter the tacacs context

Top-level container for TACACS+ server data

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* tacacs

Tree tacacs

Configurable True

Platforms Supported on all platforms

port *number*

Description The port number on which to contact the TACACS+ server

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* tacacs port *number*

Tree port

Range 0 to 65535

Default 49

Configurable True

Platforms Supported on all platforms

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secret-key *string*

Description	The unencrypted shared key used between the system and server, up to 128 characters cleartext
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* tacacs secret-key *string*
Tree	secret-key
Configurable	True
Platforms	Supported on all platforms

source-address *(ipv4-address \| ipv6-address)*

Description	Source address for TACACS to use for messages sent to a remote server
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* tacacs source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except SOURCE

timeout *number*

Description	Set the timeout in seconds on responses from the server. If not specified, the timeout is taken from the value specified for the server-group
Context	system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* timeout *number*
Tree	timeout
Range	1 to 3600
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tls-profile *reference*

Description TLS profile used to set up a TLS connection with this server

Context system aaa server-group name *string* server address *(ipv4 | ipv6 | domain-name)* tls-profile *reference*

Tree tls-profile

Reference system tls profile name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tacacs

Description Enter the tacacs context

Top-level container for TACACS servergroup data

Context system aaa server-group name *string* tacacs

Tree tacacs

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priv-lvl-authorization *boolean*

Description Use TACACS+ priv-lvl based authorization

If false, then authorization is skipped for TACACS+ users granting full admin access for those users.

Context system aaa server-group name *string* tacacs priv-lvl-authorization *boolean*

Tree priv-lvl-authorization

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Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-request

Description	Enter the service-request context Tacacs VSA config to be retrieved from server
Context	system aaa server-group name *string* tacacs service-request
Tree	service-request
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nokia-srl-authorization-role *boolean*

Description	Request nokia-srl-authorization-role service VSAs
Context	system aaa server-group name *string* tacacs service-request nokia-srl-authorization-role *boolean*
Tree	nokia-srl-authorization-role
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nokia-srl-authorization-role-cli *boolean*

Description Request nokia-srl-authorization-role-cli service VSAs

Context system aaa server-group name *string* tacacs service-request nokia-srl-authorization-role-cli *boolean*

Tree nokia-srl-authorization-role-cli

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nokia-srl-authorization-role-netconf *boolean*

Description Request nokia-srl-authorization-role-netconf service VSAs

Context system aaa server-group name *string* tacacs service-request nokia-srl-authorization-role-netconf *boolean*

Tree nokia-srl-authorization-role-netconf

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nokia-srl-configuration-role *boolean*

Description Request nokia-srl-configuration-role service VSAs

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Context	system aaa server-group name *string* tacacs service-request nokia-srl-configuration-role *boolean*
Tree	nokia-srl-configuration-role
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	Set the timeout in seconds on responses from servers in this group
Context	system aaa server-group name *string* timeout *number*
Tree	timeout
Range	1 to 3600
Default	10
Units	seconds
Configurable	True
Platforms	Supported on all platforms

type *identityref*

Description	AAA server type -- all servers in the group must be of this type
Context	system aaa server-group name *string* type *identityref*
Tree	type
Options	• tacacs Specifies servers using the TACACS+ protocol Terminal Access Controller Access Control System (TACACS+) • radius Specifies servers using RADIUS protocol Remote Authentication Dial In User Service (RADIUS) AAA server • local Specifies using Linux local methods

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This type cannot be combined with a server address

Configurable True

Platforms Supported on all platforms

alarms

Description Enter the alarms context

System alarms

Context system alarms

Tree alarms

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active id *string*

Description Contains facility alarm state

Context system alarms active id *string*

Tree active

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description Facility alarm ID

Context system alarms active id *string*

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource *string*

Description Hardware resource displayed in XPath format

Context system alarms active id *string* resource *string*

Tree resource

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

severity *keyword*

Description In increasing severity, they are: warning, minor, major, critical

Context system alarms active id *string* severity *keyword*

Tree severity

Options

- critical
- major
- minor
- warning

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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text *string*

Description Log event message

Context system alarms active id *string* text *string*

Tree text

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-created *string*

Description Time the facility alarm was raised

Context system alarms active id *string* time-created *string*

Tree time-created

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type-id *string*

Description Log event application name

Context system alarms active id *string* type-id *string*

Tree type-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable system alarms

Context system alarms admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

app-management

Description Enter the app-management context

Top-level container for application configuration and state

Context system app-management

Tree app-management

Configurable False

Platforms Supported on all platforms

application name *string*

Description List of all applications managed by the application manager

Context system app-management application name *string*

Tree application

Configurable False

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Platforms	Supported on all platforms

name *string*

Description	Unique name of this application instance
Context	system app-management application name *string*
Configurable	False
Platforms	Supported on all platforms

author *string*

Description	The author of the application
Context	system app-management application name *string* author *string*
Tree	author
Configurable	False
Platforms	Supported on all platforms

cgroup *string*

Description	Cgroup in with this application is started
Context	system app-management application name *string* cgroup *string*
Tree	cgroup
Configurable	False
Platforms	Supported on all platforms

failure-action *string*

Description	The action taken after 'failure-threshold' failures within 'failure-window' This action can be to reboot the system, wait forever, or wait for a predefined number of seconds
Context	system app-management application name *string* failure-action *string*
Tree	failure-action
Configurable	False
Platforms	Supported on all platforms

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failure-threshold *number*

Description	How many restarts within 'failure-window' are required to trigger the failure action Setting this value to 0 will result in no action taking place on application restarts
Context	system app-management application name *string* failure-threshold *number*
Tree	failure-threshold
Range	0 to 255
Configurable	False
Platforms	Supported on all platforms

failure-window *number*

Description	Sliding window in seconds, over which to count restarts towards failure-threshold
Context	system app-management application name *string* failure-window *number*
Tree	failure-window
Range	300 to 86400
Units	seconds
Configurable	False
Platforms	Supported on all platforms

last-change *string*

Description	Date and time the application instance last changed state
Context	system app-management application name *string* last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-start-type *keyword*

Description	Indicates the type of the most recent start or restart of this application instance
Context	system app-management application name *string* last-start-type *keyword*

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Tree	last-start-type
Options	• hot A hot start indicates that the application has synchronized with a redundant peer, and took over from the peer during a switchover This type results in least amount of disruption to the corresponding service and functionality. • warm A warm start indicates that the application will leave state in IDB during a restart, and recover it post restart This type results in less disruption to surrounding applications and functionality. • cold A cold start indicates that the application will not leave state in IDB during a restart This type is equivalent to a normal application restart, i.e. one where the application's state is purged from the system during the restart, and recreated after.
Configurable	False
Platforms	Supported on all platforms

launch-command *string*

Description	The command used to launch the application
Context	system app-management application name *string* launch-command *string*
Tree	launch-command
Configurable	False
Platforms	Supported on all platforms

oom-score-adj *number*

Description	OOM score adj value set for this application
Context	system app-management application name *string* oom-score-adj *number*
Tree	oom-score-adj
Configurable	False
Platforms	Supported on all platforms

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path *string*

Description The directory where the application can be found

Context system app-management application name *string* path *string*

Tree path

Configurable False

Platforms Supported on all platforms

pid *number*

Description Process ID of this application instance

Context system app-management application name *string* pid *number*

Tree pid

Configurable False

Platforms Supported on all platforms

restricted-operations *keyword*

Description The operations that may not be manually performed on this application

Context system app-management application name *string* restricted-operations *keyword*

Tree restricted-operations

Options

- restart

  This application may not be restarted manually
- stop

  This application may not be stopped manually
- start

  This application may not be started manually
- reload

  This application may not be reloaded manually
- quit

  This application may not be terminated manually
- kill

  This application may not be terminated ungracefully manually

Configurable False

Platforms Supported on all platforms

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search-command *string*

Description The command used to search for the applications liveness

Context system app-management application name *string* search-command *string*

Tree search-command

Configurable False

Platforms Supported on all platforms

state *keyword*

Description Current state of this application instance

Context system app-management application name *string* state *keyword*

Tree state

Options

- running

  Application instance is running

  This is the normal, active state of an application

- waiting-for-config

  Application instance is loaded, but has no configuration

  This state requires wait-for-config true within the applications YAML configuration. This results in the application being loaded into app-mgr, but not starting until the system receives configuration for it

- error

  The application has not started successfully, or has failed

  This state can be caused by an application hitting the restart backoff, or an application failing to start following triggering a system reboot

- starting

  The application has been asked to start

  All applications enter this state after initial execution, after which application manager will wait five seconds before checking their status. IDB connected applications may announce their state before this five second window has passed, resulting in them transitioning from this state faster than PID-monitored applications.

- stopped

  The application is not running

  This state is most likely caused by an operator action

Configurable False

Platforms Supported on all platforms

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statistics

Description Enter the statistics context

Top-level container for application statistics

Context system app-management application name *string* statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

restart-count *number*

Description The number of times this application instance has restarted

Context system app-management application name *string* statistics restart-count *number*

Tree restart-count

Default 0

Configurable False

Platforms Supported on all platforms

supported-restart-types *keyword*

Description Indicates the supported restart types for this application

Context system app-management application name *string* supported-restart-types *keyword*

Tree supported-restart-types

Options

- hot

  A hot start indicates that the application has synchronized with a redundant peer, and took over from the peer during a switchover

  This type results in least amount of disruption to the corresponding service and functionality.

- warm

  A warm start indicates that the application will leave state in IDB during a restart, and recover it post restart

  This type results in less disruption to surrounding applications and functionality.

- cold

  A cold start indicates that the application will not leave state in IDB during a restart

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This type is equivalent to a normal application restart, i.e. one where the application's state is purged from the system during the restart, and recreated after.

Configurable False

Platforms Supported on all platforms

synchronization-state *keyword*

Description Indicates if this application is available for a warm or hot restart

An application supports either hot or warm restarts, not both.

Context system app-management application name *string* synchronization-state *keyword*

Tree synchronization-state

Options

- synchronized

  This application has synchronized

  For applications that support hot redundancy, this state indicates that the application has synchronized with its redundant peer, and is ready to take over in the event of a switchover. For applications that support warm redundancy, this state indicates that the application has synchronized with its IDB, and is ready to recover its state post restart.

- not-synchronized

  This application supports either warm or hot redundancy, but has not synchronized yet, and is not in a state where a switchover can occur

- not-applicable

  This application does not support either warm or hot restart

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

version *string*

Description The version of the application

Context system app-management application name *string* version *string*

Tree version

Configurable False

Platforms Supported on all platforms

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yang

Description Enter the yang context

Top-level container for application state related to YANG

Context system app-management application name *string* yang

Tree yang

Configurable False

Platforms Supported on all platforms

modules *string*

Description YANG module names used by this application instance

Context system app-management application name *string* yang modules *string*

Tree modules

Configurable False

Platforms Supported on all platforms

source-directories *string*

Description Source directories searched for YANG modules to load

These directories are used to load modules indicated in the modules leaf, and any modules imported/included within them

Context system app-management application name *string* yang source-directories *string*

Tree source-directories

Configurable False

Platforms Supported on all platforms

authentication

Description Enter the authentication context

Container for protocol authentication options available system wide

Context system authentication

Tree authentication

Configurable True

Platforms Supported on all platforms

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keychain name *string*

Description	List of system keychains
Context	system authentication keychain name *string*
Tree	keychain
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1024

name *string*

Description	The user configured name for the keychain
Context	system authentication keychain name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

active-key-for-send *(keyword | reference)*

Description	Provides the key index of the currently active Keychain key
Context	system authentication keychain name *string* active-key-for-send *(keyword | reference)*
Tree	active-key-for-send
Options	• none No send key is usable
Reference	system authentication keychain name *string* key index *number*
Configurable	False
Platforms	Supported on all platforms

admin-state *keyword*

Description	When set to disable, the keychain is inactive When a protocol refers to a keychain that is inactive, no authentication data is added to the outbound messages and/or all inbound messages with authentication data are dropped, depending on the context. A keychain is operationally disabled in a particular direction (send/receive) if:

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Context	system authentication keychain name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

description *string*

Description	The user configured description for the keychain
Context	system authentication keychain name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

expired *boolean*

Description	The value of this object indicates whether the keychain is expired Expired can mean past end-time or prior to start-time.
Context	system authentication keychain name *string* expired *boolean*
Tree	expired
Configurable	False
Platforms	Supported on all platforms

key index *number*

Description	List of keys in the keychain
Context	system authentication keychain name *string* key index *number*
Tree	key
Configurable	True
Platforms	Supported on all platforms

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index *number*

Description Each key in a keychain requires a unique identifier, the index value specifies this identifier

Context system authentication keychain name *string* key index *number*

Configurable True

Platforms Supported on all platforms

algorithm *keyword*

Description The cryptographic algorithm used with the keying material to secure the messages

Context system authentication keychain name *string* key index *number* algorithm *keyword*

Tree algorithm

Options

- cleartext

  The authentication-key is encoded in plaintext
- md5

  The authentication-key is used to generate an MD5 digest (RFC 1321)
- hmac-md5

  The authentication-key is used to generate a 16-byte (128 bit) MD5 digest using the HMAC algorithm (RFC 2104)
- hmac-sha-1

  The authentication-key is used to generate a SHA1 digest using the HMAC algorithm (RFC 2104)
- hmac-sha-256

  The authentication-key is used to generate a SHA2 digest using the HMAC algorithm (RFC 2104)

  The SHA-256 variant of SHA2 produces an output of 32 bytes (256 bits)
- aes-128-cmac

  The authentication-key is used with the AES-128 encryption algorithm to generate a cipher MAC (RFC 4493)
- aes-256-cmac

  The authentication-key is used with the AES-256 encryption algorithm to generate a cipher MAC (RFC 4493).

Configurable True

Platforms Supported on all platforms

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authentication-key *string*

Description	The secret key to use for authentication
Context	system authentication keychain name *string* key index *number* authentication-key *string*
Tree	authentication-key
Configurable	True
Platforms	Supported on all platforms

macsec

Description	Container to configure macsec CAK and CAK Name.
Context	system authentication keychain name *string* key index *number* macsec
Tree	macsec
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	When set to disable, this key entry is inactive
Context	system authentication keychain name *string* key index *number* macsec admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cak *string*

Description	MACsec CAK, a hexadecimal name is only valid

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Context	system authentication keychain name *string* key index *number* macsec cak *string*
Tree	cak
String Length	32 | 64
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-name *string*

Description	MACsec CKN, a hexadecimal name is only valid
Context	system authentication keychain name *string* key index *number* macsec key-name *string*
Tree	key-name
String Length	2 to 64
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

receive-lifetime

Description	Enter the receive-lifetime context
Context	system authentication keychain name *string* key index *number* receive-lifetime
Tree	receive-lifetime
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *(keyword | date-and-time-delta)*

Description	The time at which the key becomes invalid for use in the receive direction

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The default is forever.

Context system authentication keychain name *string* key index *number* receive-lifetime end-time *(keyword | date-and-time-delta)*

Tree end-time

String Length 20 to 32

Options

- forever

  Receive key does not expire (equivalent to infinite tolerance)

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description The time at which the key becomes valid for use in the receive direction

If send-and-receive is true, this value is ignored. If send-and-receive is false the default is the Unix Epoch (Jan 1, 1970 00:00:00 UTC).

If there are multiple keys in the keychain the one used for checking received authentication information is the key with the most recent receive-lifetime start-time that is earlier than the current date and time and that has not exceeded its receive-lifetime end-time by more than 'tolerance' seconds

Context system authentication keychain name *string* key index *number* receive-lifetime start-time *string*

Tree start-time

String Length 20 to 32

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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send-lifetime

Description Enter the send-lifetime context

Specifies the lifetime of the key for sending authentication information to the peer

Context system authentication keychain name *string* key index *number* send-lifetime

Tree send-lifetime

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-and-receive *boolean*

Description When this is set to true (the default value), the specified start-time also applies to the receive direction

When set to false, router uses the specific start-time for the receive direction (asymmetric mode).

Context system authentication keychain name *string* key index *number* send-lifetime send-and-receive *boolean*

Tree send-and-receive

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description The time at which the key becomes valid for use in the send direction

The default is the Unix Epoch (Jan 1, 1970 00:00:00 UTC).

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If there are multiple keys in the keychain the one used for sending authentication information is the key with the most recent send-lifetime start-time that is earlier than the current date and time

Context system authentication keychain name *string* key index *number* send-lifetime start-time *string*

Tree start-time

String Length 20 to 32

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tolerance *number*

Description Tolerance for receive keys

If tolerance is Z then all receive keys remain valid up to the configured/ applicable end-time plus an additional Z seconds.

Context system authentication keychain name *string* tolerance *number*

Tree tolerance

Default 0

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Specifies the intended use of the keychain

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The type constrains the set of crypto algorithms that are available to use with each key in the keychain. It is also used to ensure that this keychain is only used by protocols for which it is intended.

Context system authentication keychain name *string* type *keyword*

Tree type

Options

- tcp-md5

  Keychain intended to be used for TCP-MD5 authentication
- isis

  Keychain intended to be used for authentication of IS-IS PDUs
- ospf

  Keychain intended to be used for authentication of OSPFv2 messages
- tcp-ao

  Keychain intended to be used for TCP-AO authentication
- vrrp

  Keychain intended to be used for authentication of VRRPv2 messages
- macsec

  Keychain intended to be used for key wrapping of SAK in a mka messages.
- macsec-fallback

  Fallback Keychain intended to be used for key wrapping of SAK in a mka messages.

Configurable True

Platforms Supported on all platforms

usable *boolean*

Description The value of this object indicates if the keychain is usable for authentication

Context system authentication keychain name *string* usable *boolean*

Tree usable

Configurable False

Platforms Supported on all platforms

banner

Description Enter the banner context

Contains configuration and state related to system banners

Context system banner

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Tree	banner
Configurable	True
Platforms	Supported on all platforms

login-banner *string*

Description	Banner to display before a user has authenticated
Context	system banner login-banner *string*
Tree	login-banner
Configurable	True
Platforms	Supported on all platforms

motd-banner *string*

Description	Banner to display after a user has authenticated
Context	system banner motd-banner *string*
Tree	motd-banner
Configurable	True
Platforms	Supported on all platforms

boot

Description	Enter the boot context Top-level container for configuration and state data related to booting the system
Context	system boot
Tree	boot
Configurable	True
Platforms	Supported on all platforms

autoboot

Description	Enter the autoboot context Top-level container for configuration and state data related to autobooting the system
Context	system boot autoboot

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Tree autoboot
Configurable True
Platforms Supported on all platforms

admin-state *keyword*

Description Administratively enable or disable autoboot functionality
Context system boot autoboot admin-state *keyword*
Tree admin-state
Options
- enable
- disable

Configurable True
Platforms Supported on all platforms

attempts *number*

Description Sets the amount of executions to try autoboot, before rebooting the system
Context system boot autoboot attempts *number*
Tree attempts
Range 1 to 10
Configurable True
Platforms Supported on all platforms

client-id *keyword*

Description The client ID to use on outgoing DHCP requests
Context system boot autoboot client-id *keyword*
Tree client-id
Options
- serial

  Use the chassis serial number as the client ID

Configurable True
Platforms Supported on all platforms

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interface *reference*

Description Sets the interface(s) to use for autoboot functionality

When not configured, out-of-band provisioning selects mgmt0 when it has link, otherwise a suitable fallback management interface. In-band provisioning runs DHCP on all front-panel ports of a fixed platform, or on the first five ports of line card 1 of a chassis.

Context system boot autoboot interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms Supported on all platforms

mode *keyword*

Description Enter the mode context

Context system boot autoboot mode *keyword*

Tree mode

Options

- ztp

  start ztp in normal mode. will attempt inband in case out of band fails
- secure

  start ztp in secure mode. will attempt out of band connection to a secure bootstrap server
- inband

  start ztp in inband mode. out-of-band will not run
- ooband

  start ztp in out-of-band mode. inband will not run
- localdisk

  start ztp using provisioning information available on a locally mounted disk

Configurable True

Platforms Supported on all platforms

oper-state *string*

Description The current operational status of the autoboot process

Context system boot autoboot oper-state *string*

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Tree	oper-state
Configurable	False
Platforms	Supported on all platforms

timeout *number*

Description	Sets the timeout for each attempt to autoboot
Context	system boot autoboot timeout *number*
Tree	timeout
Range	200 to 3600
Units	seconds
Configurable	True
Platforms	Supported on all platforms

bootz

Description	Enter the bootz context Bootz info
Context	system boot bootz
Tree	bootz
Configurable	True
Platforms	Supported on all platforms

no-dhcp

Description	Enter the no-dhcp context Stage and control BootZ provisioning that does not use DHCP option-based bootstrap server discovery.
Context	system boot bootz no-dhcp
Tree	no-dhcp
Configurable	False
Platforms	Supported on all platforms

status

Description	Enter the status context

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	Bootz state
Context	system boot bootz status
Tree	status
Configurable	True
Platforms	Supported on all platforms

bootstate *string*

Description	Enter the bootstate context
Context	system boot bootz status bootstate *string*
Tree	bootstate
Configurable	False
Platforms	Supported on all platforms

bootstate-timestamp *string*

Description	The timestamp of the last bootz state
Context	system boot bootz status bootstate-timestamp *string*
Tree	bootstate-timestamp
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

fips-140

Description	Enter the fips-140 context Boot up the router in fips-provider mode In fips-provider mode only fips approved algorithms are allowed. In addition for fip-provider mode to take effect a reboot is of the router is needed.
Context	system boot fips-140
Tree	fips-140
Configurable	True
Platforms	Supported on all platforms

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admin-state *keyword*

Description	This leaf contains the configured, desired state of the fips-provider.
Context	system boot fips-140 admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

chassis-reboot-required *boolean*

Description	Reads true if the user has committed a change to configurable fips admin-state value and has not yet restarted chassis. The operational value is still the values initialized at the last chassis restart.
Context	system boot fips-140 chassis-reboot-required *boolean*
Tree	chassis-reboot-required
Configurable	False
Platforms	Supported on all platforms

oper-down-reason *keyword*

Description	The reason for not enabling fips operational down
Context	system boot fips-140 oper-down-reason *keyword*
Tree	oper-down-reason
Options	• unknown
Configurable	False
Platforms	Supported on all platforms

oper-state *keyword*

Description	This leaf contains the operational state of fips-provider.
Context	system boot fips-140 oper-state *keyword*
Tree	oper-state
Options	• up

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Component or process is operational

- down

  Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

golden-image *string*

Description The local image the system reverts to when a factory reset operation is requested

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The value is the folder that contains the initramfs, kernel, and squashfs image. The search path for these directories is /mnt/nokiaos/<folder>

Context system boot golden-image *string*

Tree golden-image

String Length 1 to 255

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grub-password *string*

Description The leaf container grub boot password

Context system boot grub-password *string*

Tree grub-password

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

image *string*

Description Ordered list of local images used to boot the system

This directly translates into boot configuration in grub, where the images are tried in the order specified by the user. Images are sourced via the internal SD card, and the value passed is the folder that contains the initramfs, kernel, and squashfs image. The search path for these directories is /mnt/nokiaos/<folder>

Context system boot image *string*

Tree image

String Length 1 to 255

Configurable False

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Platforms	Supported on all platforms
Max. Elements	3

bridge-table

Description	Enter the bridge-table context system bridge-table information
Context	system bridge-table
Tree	bridge-table
Configurable	True
Platforms	Supported on all platforms

evpn

Description	Enter the evpn context System bridge-table BGP-EVPN information
Context	system bridge-table evpn
Tree	evpn
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-tep

Description	Enter the multicast-tep context System bridge-table BGP-EVPN multicast Termination Endpoint information
Context	system bridge-table evpn multicast-tep
Tree	multicast-tep
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-entries *number*

Description The maximum number of BGP-EVPN multicast Termination EndPoints (TEPs) allowed in the system

Context system bridge-table evpn multicast-tep max-entries *number*

Tree max-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enter the mpls context

System bridge-table BGP-EVPN MPLS multicast Termination Endpoint information

Context system bridge-table evpn multicast-tep mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system bridge-table evpn multicast-tep mpls statistics

Tree statistics

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-entries *number*

Description	The total number of active BGP-EVPN multicast Termination Endpoints (TEPs)
Context	system bridge-table evpn multicast-tep mpls statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of BGP-EVPN multicast Termination EndPoints (TEPs)
Context	system bridge-table evpn multicast-tep mpls statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep tep *(ipv4-address | ipv6-address)*

Description	Enter the tep list instance
Context	system bridge-table evpn multicast-tep mpls tep tep *(ipv4-address | ipv6-address)*
Tree	tep
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tep *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote BGP-EVPN multicast Termination Endpoint (TEP)

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Context system bridge-table evpn multicast-tep mpls tep tep *(ipv4-address | ipv6-address)*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description The hardware index (system allocated) for the BGP-EVPN multicast Termination Endpoint (TEP)

If a non-zero hardware index is allocated, then there are available system resources and there is at least one BGP-EVPN multicast destination (using this TEP) ready to be programmed. If the hardware index is 0, there are not resources left and the TEP is not programmed, even if an Inclusive Multicast Ethernet Tag route was correctly imported from a peer.

Context system bridge-table evpn multicast-tep mpls tep tep *(ipv4-address | ipv6-address)* index *number*

Tree index

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-changed *string*

Description The date and time of the last update of this BGP-EVPN multicast Termination Endpoint

Context system bridge-table evpn multicast-tep mpls tep tep *(ipv4-address | ipv6-address)* last-changed *string*

Tree last-changed

String Length 20 to 32

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-learning

Description Enter the mac-learning context

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Context	system bridge-table mac-learning
Tree	mac-learning
Configurable	True
Platforms	Supported on all platforms

mac-relearn-only *boolean*

Description	The value of this leaf indicates that the system will not learn any new mac addresses, but will relearn any that are already programmed
Context	system bridge-table mac-learning mac-relearn-only *boolean*
Tree	mac-relearn-only
Configurable	False
Platforms	Supported on all platforms

mac-limit

Description	Enter the mac-limit context Bridge Table size and thresholds.
Context	system bridge-table mac-limit
Tree	mac-limit
Configurable	True
Platforms	Supported on all platforms

maximum-entries *number*

Description	Maximum number of mac addresses allowed in the system bridge-table.
Context	system bridge-table mac-limit maximum-entries *number*
Tree	maximum-entries
Configurable	False
Platforms	Supported on all platforms

warning-threshold-pct *number*

Description	Percentage of the configured max-number-macs over which a warning is triggered. The warning message is cleared when the percentage drops below the configured percentage minus 5%
Context	system bridge-table mac-limit warning-threshold-pct *number*

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Tree	warning-threshold-pct
Configurable	False
Platforms	Supported on all platforms

proxy-arp

Description	Enter the proxy-arp context system bridge-table proxy ARP information
Context	system bridge-table proxy-arp
Tree	proxy-arp
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	system bridge-table proxy-arp statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of active proxy ARP entries.
Context	system bridge-table proxy-arp statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

in-active-entries *number*

Description	The total number of inactive proxy ARP entries.
Context	system bridge-table proxy-arp statistics in-active-entries *number*
Tree	in-active-entries
Default	0

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Configurable	False
Platforms	Supported on all platforms

neighbor-origin origin *keyword*

Description	the origin of the proxy ARP installed in the table.
Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword*
Tree	neighbor-origin
Configurable	False
Platforms	Supported on all platforms

origin *keyword*

Description	Enter the origin context
Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword*
Options	• static • dynamic • evpn • duplicate
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of active proxy ARP entries.
Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword* active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

in-active-entries *number*

Description	The total number of inactive proxy ARP entries.

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Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword* in-active-entries *number*
Tree	in-active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

pending-entries *number*

Description	The total number of pending proxy ARP entries.
Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword* pending-entries *number*
Tree	pending-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	The total number of proxy ARP entries.
Context	system bridge-table proxy-arp statistics neighbor-origin origin *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

pending-entries *number*

Description	The total number of pending proxy ARP entries.
Context	system bridge-table proxy-arp statistics pending-entries *number*
Tree	pending-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

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total-entries *number*

Description	The total number of proxy ARP entries.
Context	system bridge-table proxy-arp statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

proxy-nd

Description	Enter the proxy-nd context system bridge-table proxy ND entry information
Context	system bridge-table proxy-nd
Tree	proxy-nd
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	system bridge-table proxy-nd statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of active proxy ARP entries.
Context	system bridge-table proxy-nd statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

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in-active-entries *number*

Description	The total number of inactive proxy ARP entries.
Context	system bridge-table proxy-nd statistics in-active-entries *number*
Tree	in-active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

neighbor-origin origin *keyword*

Description	the origin of the proxy ARP installed in the table.
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword*
Tree	neighbor-origin
Configurable	False
Platforms	Supported on all platforms

origin *keyword*

Description	Enter the origin context
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword*
Options	• static • dynamic • evpn • duplicate
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of active proxy ARP entries.
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword* active-entries *number*
Tree	active-entries
Default	0
Configurable	False

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Platforms	Supported on all platforms

in-active-entries *number*

Description	The total number of inactive proxy ARP entries.
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword* in-active-entries *number*
Tree	in-active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

pending-entries *number*

Description	The total number of pending proxy ARP entries.
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword* pending-entries *number*
Tree	pending-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	The total number of proxy ARP entries.
Context	system bridge-table proxy-nd statistics neighbor-origin origin *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

pending-entries *number*

Description	The total number of pending proxy ARP entries.
Context	system bridge-table proxy-nd statistics pending-entries *number*
Tree	pending-entries

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Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	The total number of proxy ARP entries.
Context	system bridge-table proxy-nd statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	system bridge-table statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of macs that are active on the system.
Context	system bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

failed-entries *number*

Description	The total number of macs, which have not been programmed on atleast one slot
Context	system bridge-table statistics failed-entries *number*
Tree	failed-entries

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Default	0
Configurable	False
Platforms	Supported on all platforms

mac-type type *keyword*

Description	the type of the mac in the system.
Context	system bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	Enter the type context
Context	system bridge-table statistics mac-type type *keyword*
Options	• static • duplicate • learnt • irb-interface • evpn • evpn-static • irb-interface-anycast • proxy-anti-spoof • reserved • eth-cfm • irb-interface-vrrp
Configurable	False
Platforms	Supported on all platforms

active-entries *number*

Description	The total number of macs of this type on the system.
Context	system bridge-table statistics mac-type type *keyword* active-entries *number*
Tree	active-entries
Default	0

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Configurable	False
Platforms	Supported on all platforms

failed-entries *number*

Description	The total number of macs of this type, which have not been programmed on atleast one slot
Context	system bridge-table statistics mac-type type *keyword* failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	The total number of macs of this type , active and inactive, on the system.
Context	system bridge-table statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

total-entries *number*

Description	The total number of macs, active and inactive, on the system.
Context	system bridge-table statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	Supported on all platforms

cli

Description	Enter the cli context Top-level container for CLI services
Context	system cli

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Tree cli

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

environment

Description Enter the environment context

Top-level container for global environment data

Context system cli environment

Tree environment

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alias name *string*

Description Create or overwrite an alias

Aliases can be entered at the start of the input line, and must represent a complete command.

The alias name can contain the following:

For example, if you create this alias: environment alias 'display interface {name}' 'info / interface {name} | as table'

Then entering 'display interface ethernet-1/1' will execute 'info / interface ethernet-1/1 | as table'.

The alias value can contain the following keywords:

For example, if you create this alias: environment alias 'display interface' 'info / interface {} subinterface {subinterface} | as table'

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Then entering the following are all equivalent: display interface display interface * display interface * subinterface * But you can of course also use other values display interface my_interface subinterface 1

Context system cli environment alias name *string*

Tree alias

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name of the alias

Context system cli environment alias name *string*

String Length 1 to max

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

command *string*

Description Aliased command

Context system cli environment alias name *string* command *string*

Tree command

String Length 1 to max

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

basic-prompt *string*

Description

Change the prompt for 'basic' cli-engine type displayed before every input line

The following list of keywords will be replaced automatically: aaa_session_id The session id of the current AAA session. aaa_user The user name from the current AAA session. banner Shows server status banner if there is any (for example [WARM BOOT]) candidate_name The current candidate name or empty string if not in candidate mode. commit_confirmed Shows [commit confirmed] if there is commit confirmed in progress. commit_confirmed_with_remaining_time Shows [commit confirmed] and the remaining time if there is commit confirmed in progress. configuration_session_type The current configuration session type (e.g. shared, shared-exclusive or private or private-exclusive). Will output empty string when no configuration session has been established. domain The domain name (as returned by domainname program, same as sysctl kernel.domainname). fqdn Returns FQDN (if the domain name is not defined or unknown, then returns the host name). host The host name. hw_slot Slot letter of the CPM slot ('A' or 'B'). jspath_pwc The present working context, formatted as a jspath. Example: .interface{.name=="mgmt0"}.subinterface{.index==0} last_executed_command_duration Duration of the last executed command in seconds. last_executed_command_status Status of the last executed command ('0' if successful, '1' if the last command failed to parse or execute). mode The current CLI mode (e.g. candidate, running, show, state or tools). mode_and_session The current CLI mode and configuration session type and candidate name (e.g. candidate shared default, candidate private-exclusive mycandidate, running, show, state or tools). mode_and_session_type The current CLI mode and configuration session type (e.g. candidate shared, candidate shared-exclusive, running, show, state or tools). modified Same as {banner}{startup_config_state}{modified_flags} modified_flags Shows + if the running configuration is different from the saved configuration (unsaved changes). Shows ! if the baseline is out of sync with the running configuration. Shows * if there are any changes in the candidate configuration to commit or discard. modified_with_change_count Same as {modified} but shows count of changed objects in addition to '*' if there are any changes in the candidate configuration. pwc The present working context, formatted as a CLI command. Example: interface mgmt0 subinterface 0 pwd The present working directory Example: /home/admin redundancy Active/standby CPM redundancy status ('standby ' or ' '). short_pwc The nodes in the present working context, separated by '>'. Note this does not include any key values. Example: interface>subinterface short_redundancy Short active/standby CPM redundancy status ('s' or ''). short_yang_models The currently used yang models ('' or 'oc ') startup_config_state Shows [RESCUE], [FACTORY] or [FAILED] if the initial configuration has issues or does not exist. Is empty when the initial configuration exists and was loaded/saved without problems. [RESCUE] means that the initial

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(startup) configuration failed to load or commit, but rescue configuration was successfully loaded and committed. [FACTORY] means that neither initial (startup) configuration or rescue configuration exists and hard-coded factory configuration was successfully loaded and committed. [FAILED] means that no configuration was successfully loaded and committed. The default candidate may contain initial (startup) or rescue configuration content (it can be empty if it is not possible to load them because they are invalid). time_12 Current day of the week and local time (e.g. Fri 1:23PM). time_24 Same as {time_12} but using 24h format (e.g. Fri 13:23). user The user name. vi_editing_mode The current vi editing mode (if vi-editing-mode is enabled). Shows one of INSERT, REPLACE, REPLACE_SINGLE, NAVIGATION xpath_pwc The present working context, formatted as a xpath path. Example: /interface[name=mgmt0]/subinterface[index=0] To enter a keyword, enclose it with '{' and '}', e.g. '{pwc}'. To create a multiline prompt, use ' ' for newlines. To print a '{' or '}', use '{{' or '}}', respectively. e.g. '{{pwc}}'. In addition | can be used to separate left and right aligned part. Use || for literal '|'.

Context system cli environment basic-prompt *string*

Tree basic-prompt

Default \n--{{ {banner}{startup_config_state}{modified_flags}{short_yang_models}{mode_and_session} }}--[{pwc}]--\n{short_redundancy}{hw_slot}:{aaa_user}@{host}#

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bottom-toolbar *string*

Description Change the text displayed in the bottom toolbar

The following list of keywords will be replaced automatically: aaa_session_id The session id of the current AAA session. aaa_user The user name from the current AAA session. banner Shows server status banner if there is any (for example [WARM BOOT]) candidate_name The current candidate name or empty string if not in candidate mode. commit_confirmed Shows [commit confirmed] if there is commit confirmed in progress. commit_confirmed_with_remaining_time Shows [commit confirmed] and the remaining time if there is commit confirmed in progress. configuration_session_type The current configuration session type (e.g. shared, shared-exclusive or private or private-exclusive). Will output empty string when no configuration session has been established. domain The domain name (as returned by domainname program, same as sysctl kernel.domainname).

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fqdn Returns FQDN (if the domain name is not defined or unknown, then returns the host name). host The host name. hw_slot Slot letter of the CPM slot ('A' or 'B'). jspath_pwc The present working context, formatted as a jspath. Example: .interface{.name=="mgmt0"}.subinterface{.index==0} last_executed_command_duration Duration of the last executed command in seconds. last_executed_command_status Status of the last executed command ('0' if successful, '1' if the last command failed to parse or execute). mode The current CLI mode (e.g. candidate, running, show, state or tools). mode_and_session The current CLI mode and configuration session type and candidate name (e.g. candidate shared default, candidate private-exclusive mycandidate, running, show, state or tools). mode_and_session_type The current CLI mode and configuration session type (e.g. candidate shared, candidate shared-exclusive, running, show, state or tools). modified Same as {banner}{startup_config_state}{modified_flags} modified_flags Shows + if the running configuration is different from the saved configuration (unsaved changes). Shows ! if the baseline is out of sync with the running configuration. Shows * if there are any changes in the candidate configuration to commit or discard. modified_with_change_count Same as {modified} but shows count of changed objects in addition to '*' if there are any changes in the candidate configuration. pwc The present working context, formatted as a CLI command. Example: interface mgmt0 subinterface 0 pwd The present working directory Example: /home/admin redundancy Active/standby CPM redundancy status ('standby ' or ' '). short_pwc The nodes in the present working context, separated by '>'. Note this does not include any key values. Example: interface>subinterface short_redundancy Short active/standby CPM redundancy status ('s' or ''). short_yang_models The currently used yang models ('' or 'oc ') startup_config_state Shows [RESCUE], [FACTORY] or [FAILED] if the initial configuration has issues or does not exist. Is empty when the initial configuration exists and was loaded/saved without problems. [RESCUE] means that the initial (startup) configuration failed to load or commit, but rescue configuration was successfully loaded and committed. [FACTORY] means that neither initial (startup) configuration or rescue configuration exists and hard-coded factory configuration was successfully loaded and committed. [FAILED] means that no configuration was successfully loaded and committed.
The default candidate may contain initial (startup) or rescue configuration content (it can be empty if it is not possible to load them because they are invalid). time_12 Current day of the week and local time (e.g. Fri 1:23PM). time_24 Same as {time_12} but using 24h format (e.g. Fri 13:23). user The user name. vi_editing_mode The current vi editing mode (if vi-editing-mode is enabled). Shows one of INSERT, REPLACE, REPLACE_SINGLE, NAVIGATION xpath_pwc The present working context, formatted as a xpath path. Example: /interface[name=mgmt0]/subinterface[index=0] To enter a keyword, enclose it with '{' and '}', e.g. '{pwc}'. To create a multiline prompt, use ' ' for newlines. To print a '{' or '}', use '{{' or '}}', respectively. e.g. '{{pwc}}'. In addition | can be used to separate left and right aligned part. Use || for literal '|'.

Context system cli environment bottom-toolbar *string*

Tree bottom-toolbar

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Default	{banner}{startup_config_state}{commit_confirmed_with_remaining_time}|{time_24}
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cli-engine

Description	Enter the cli-engine context CLI engine settings
Context	system cli environment cli-engine
Tree	cli-engine
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

completion-display *keyword*

Description	Display style of possible commands Note: The basic CLI engine supports only completion display 'inline'.
Context	system cli environment cli-engine completion-display *keyword*
Tree	completion-display
Default	popup
Options	• inline • popup
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

completion-ignore-case *boolean*

Description Ignore case when filtering completion results

Context system cli environment cli-engine completion-ignore-case *boolean*

Tree completion-ignore-case

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

completion-type *keyword*

Description Set completion type used for auto completions and auto suggestions in the CLI

Note: The basic CLI engine supports only completion type 'prefix'.

Context system cli environment cli-engine completion-type *keyword*

Tree completion-type

Default smart

Options

- fuzzy
- prefix
- smart
- substring

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

history-filename *string*

Description	Set the filename where history is stored
Context	system cli environment cli-engine history-filename *string*
Tree	history-filename
Default	~/.srlinux_history
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-history-items *number*

Description	Set the maximum history items to be stored in persistent storage
Context	system cli environment cli-engine max-history-items *number*
Tree	max-history-items
Range	1 to 1000
Default	1000
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

refresh-interval *number*

Description	Set refresh interval in seconds (0 means refresh is disabled)
Context	system cli environment cli-engine refresh-interval *number*

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Tree	refresh-interval
Range	0 to 86400
Default	5
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Set CLI engine type for interactive logins
Context	system cli environment cli-engine type *keyword*
Tree	type
Default	advanced
Options	• basic • advanced
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vi-editing-mode *boolean*

Description	Set vi editing mode
Context	system cli environment cli-engine vi-editing-mode *boolean*
Tree	vi-editing-mode
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

commit-options

Description Enter the commit-options context

Commit options settings

Context system cli environment commit-options

Tree commit-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

confirmed *boolean*

Description Require a confirmed commit

Context system cli environment commit-options confirmed *boolean*

Tree confirmed

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-operation *keyword*

Description Sets the default commit operation

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Context	system cli environment commit-options default-operation *keyword*
Tree	default-operation
Default	none
Options	• none • now • stay
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

complete-on-enter *boolean*

Description	Trigger auto-completion whenever you type an Enter Enabled by default.
Context	system cli environment complete-on-enter *boolean*
Tree	complete-on-enter
Default	true
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

complete-on-space *boolean*

Description	Trigger auto-completion whenever you type a Space Enabled by default.
Context	system cli environment complete-on-space *boolean*
Tree	complete-on-space

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Default	true
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

complete-on-tab *boolean*

Description	Trigger auto-completion whenever you type a Tab Enabled by default.
Context	system cli environment complete-on-tab *boolean*
Tree	complete-on-tab
Default	true
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-options

Description	Enter the discard-options context Discard options settings
Context	system cli environment discard-options
Tree	discard-options
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-operation *keyword*

Description Sets the default discard operation

Context system cli environment discard-options default-operation *keyword*

Tree default-operation

Default none

Options

- none
- now
- stay

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-completer-limit *number*

Description The limit on number of keys shown in auto-completion

Context system cli environment key-completer-limit *number*

Tree key-completer-limit

Range 1 to 1000

Default 100

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance *reference*

Description	The default network-instance to be used if not specified
Context	system cli environment network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output-format *keyword*

Description	The CLI output display format. Set to 'text' by default
Context	system cli environment output-format *keyword*
Tree	output-format
Default	text
Options	• json • table • text • xml • yaml
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output-modifier-alias name *string*

Description	Create or overwrite an output modifier alias

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Output modifier aliases can be entered after '|'. They can represent a complete command or part of a target command.

For example, if you create the following aliases, the output will be the same: count = "grep --count" match_if = "grep interface" count_if = "count interface" info | count interface info | match_if --count info | count_if

Context system cli environment output-modifier-alias name *string*

Tree output-modifier-alias

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name of the alias

Context system cli environment output-modifier-alias name *string*

String Length 1 to max

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

command *string*

Description Aliased command

Context system cli environment output-modifier-alias name *string* command *string*

Tree command

String Length 1 to max

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pagination *keyword*

Description

Pagination override of the CLI output, either 'on' or 'off'

If turned on, then any CLI command behaves as if '| more' was entered at the end of the input command. Default value is unset (empty string). Unset value means there is no override.

Context

system cli environment pagination *keyword*

Tree

pagination

Options

- off
- on

Configurable

True

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prompt *string*

Description

Change the prompt for 'advanced' cli-engine type displayed before every input line

The following list of keywords will be replaced automatically: aaa_session_id The session id of the current AAA session. aaa_user The user name from the current AAA session. banner Shows server status banner if there is any (for example [WARM BOOT]) candidate_name The current candidate name or empty string if not in candidate mode. commit_confirmed Shows [commit confirmed] if there is commit confirmed in progress. commit_confirmed_with_remaining_time Shows [commit confirmed] and the remaining time if there is commit confirmed in progress. configuration_session_type The current configuration session type (e.g. shared, shared-exclusive or private or private-exclusive). Will output empty string when no configuration session has been established. domain The domain name (as returned by domainname program, same as sysctl kernel.domainname). fqdn Returns FQDN (if the domain name is not defined or unknown, then

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returns the host name). host The host name. hw_slot Slot letter of the CPM slot ('A' or 'B'). jspath_pwc The present working context, formatted as a jspath. Example: .interface{.name=="mgmt0"}.subinterface{.index==0} last_executed_command_duration Duration of the last executed command in seconds. last_executed_command_status Status of the last executed command ('0' if successful, '1' if the last command failed to parse or execute). mode The current CLI mode (e.g. candidate, running, show, state or tools). mode_and_session The current CLI mode and configuration session type and candidate name (e.g. candidate shared default, candidate private-exclusive mycandidate, running, show, state or tools). mode_and_session_type The current CLI mode and configuration session type (e.g. candidate shared, candidate shared-exclusive, running, show, state or tools). modified Same as {banner}{startup_config_state}{modified_flags} modified_flags Shows + if the running configuration is different from the saved configuration (unsaved changes). Shows ! if the baseline is out of sync with the running configuration. Shows * if there are any changes in the candidate configuration to commit or discard. modified_with_change_count Same as {modified} but shows count of changed objects in addition to '*' if there are any changes in the candidate configuration. pwc The present working context, formatted as a CLI command. Example: interface mgmt0 subinterface 0 pwd The present working directory Example: /home/admin redundancy Active/standby CPM redundancy status ('standby ' or ' '). short_pwc The nodes in the present working context, separated by '>'. Note this does not include any key values. Example: interface>subinterface short_redundancy Short active/standby CPM redundancy status ('s' or ''). short_yang_models The currently used yang models ('' or 'oc ') startup_config_state Shows [RESCUE], [FACTORY] or [FAILED] if the initial configuration has issues or does not exist. Is empty when the initial configuration exists and was loaded/saved without problems. [RESCUE] means that the initial (startup) configuration failed to load or commit, but rescue configuration was successfully loaded and committed. [FACTORY] means that neither initial (startup) configuration or rescue configuration exists and hard-coded factory configuration was successfully loaded and committed. [FAILED] means that no configuration was successfully loaded and committed. The default candidate may contain initial (startup) or rescue configuration content (it can be empty if it is not possible to load them because they are invalid). time_12 Current day of the week and local time (e.g. Fri 1:23PM). time_24 Same as {time_12} but using 24h format (e.g. Fri 13:23). user The user name. vi_editing_mode The current vi editing mode (if vi-editing-mode is enabled). Shows one of INSERT, REPLACE, REPLACE_SINGLE, NAVIGATION xpath_pwc The present working context, formatted as a xpath path. Example: /interface[name=mgmt0]/subinterface[index=0] To enter a keyword, enclose it with '{' and '}', e.g. '{pwc}'. To create a multiline prompt, use ' ' for newlines. To print a '{' or '}', use '{{' or '}}', respectively. e.g. '{{pwc}}'. In addition | can be used to separate left and right aligned part. Use || for literal '|'.

Context system cli environment prompt *string*

Tree prompt

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Default	\n--{{ {modified_flags}{short_yang_models}{mode_and_session} }}--[{pwc}]--\n{short_redundancy}{hw_slot}:{aaa_user}@{host}#
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-idle-timeout *number*

Description	The idle timeout override for the CLI session in seconds Can be used to override the value of the idle timer value received from AAA session. Value of 0 means idle timeout is disabled. Unset value means there is no override.
Context	system cli environment session-idle-timeout *number*
Tree	session-idle-timeout
Range	0 to 86400
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tools-fallback-unstructured *boolean*

Description	Fall back to a 'tools' action's free-form 'standard_output' channel When a 'tools' (YANG-modeled action) command has no structured 'output' and a structured output format ('text', 'json', 'yaml' or 'xml') is selected, display the action's free-form 'standard_output' channel instead. When disabled, such actions render nothing. Enabled by default.
Context	system cli environment tools-fallback-unstructured *boolean*
Tree	tools-fallback-unstructured
Default	true

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tools-output-format *keyword*

Description	The CLI output display format applied to 'tools' commands. Set to 'text' by default Selecting 'text', 'json', 'yaml' or 'xml' causes the action's structured 'output' updates to be rendered using the standard data formatter. Selecting 'unstructured-output' instead displays only the action's free-form 'standard_output' channel.
Context	system cli environment tools-output-format *keyword*
Tree	tools-output-format
Default	text
Options	• json • text • unstructured-output • xml • yaml
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

yang-models *keyword*

Description	The default yang-models to be used when starting the CLI Default is 'srl'.
Context	system cli environment yang-models *keyword*

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Tree yang-models

Default srl

Options
- oc
- srl

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock

Description Enter the clock context

Top-level container for system clock configuration and state

Context system clock

Tree clock

Configurable True

Platforms Supported on all platforms except IMGMT

timezone *keyword*

Description The timezone to use for the system Based on IANAs Time Zone database

Context system clock timezone *keyword*

Tree timezone

Options
- Africa/Abidjan
- Africa/Accra
- Africa/Addis_Ababa
- Africa/Algiers
- Africa/Asmara
- Africa/Bamako
- Africa/Bangui
- Africa/Banjul
- Africa/Bissau

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- Africa/Blantyre
- Africa/Brazzaville
- Africa/Bujumbura
- Africa/Cairo
- Africa/Casablanca
- Africa/Ceuta
  Ceuta, Melilla
- Africa/Conakry
- Africa/Dakar
- Africa/Dar_es_Salaam
- Africa/Djibouti
- Africa/Douala
- Africa/El_Aaiun
- Africa/Freetown
- Africa/Gaborone
- Africa/Harare
- Africa/Johannesburg
- Africa/Juba
- Africa/Kampala
- Africa/Khartoum
- Africa/Kigali
- Africa/Kinshasa
  Dem. Rep. of Congo (west)
- Africa/Lagos
- Africa/Libreville
- Africa/Lome
- Africa/Luanda
- Africa/Lubumbashi
  Dem. Rep. of Congo (east)
- Africa/Lusaka
- Africa/Malabo
- Africa/Maputo
- Africa/Maseru
- Africa/Mbabane
- Africa/Mogadishu
- Africa/Monrovia

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- Africa/Nairobi
- Africa/Ndjamena
- Africa/Niamey
- Africa/Nouakchott
- Africa/Ouagadougou
- Africa/Porto-Novo
- Africa/Sao_Tome
- Africa/Tripoli
- Africa/Tunis
- Africa/Windhoek
- America/Adak
  Aleutian Islands
- America/Anchorage
  Alaska (most areas)
- America/Anguilla
- America/Antigua
- America/Araguaina
  Tocantins
- America/Argentina/Buenos_Aires
  Buenos Aires (BA, CF)
- America/Argentina/Catamarca
  Catamarca (CT); Chubut (CH)
- America/Argentina/Cordoba
  Argentina (most areas: CB, CC, CN, ER, FM, MN, SE, SF)
- America/Argentina/Jujuy
  Jujuy (JY)
- America/Argentina/La_Rioja
  La Rioja (LR)
- America/Argentina/Mendoza
  Mendoza (MZ)
- America/Argentina/Rio_Gallegos
  Santa Cruz (SC)
- America/Argentina/Salta
  Salta (SA, LP, NQ, RN)
- America/Argentina/San_Juan
  San Juan (SJ)

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- America/Argentina/San_Luis
  San Luis (SL)
- America/Argentina/Tucuman
  Tucuman (TM)
- America/Argentina/Ushuaia
  Tierra del Fuego (TF)
- America/Aruba
- America/Asuncion
- America/Atikokan
  EST - ON (Atikokan); NU (Coral H)
- America/Bahia
  Bahia
- America/Bahia_Banderas
  Central Time - Bahia de Banderas
- America/Barbados
- America/Belem
  Para (east); Amapa
- America/Belize
- America/Blanc-Sablon
  AST - QC (Lower North Shore)
- America/Boa_Vista
  Roraima
- America/Bogota
- America/Boise
  Mountain - ID (south); OR (east)
- America/Cambridge_Bay
  Mountain - NU (west)
- America/Campo_Grande
  Mato Grosso do Sul
- America/Cancun
  Eastern Standard Time - Quintana Roo
- America/Caracas
- America/Cayenne
- America/Cayman
- America/Chicago
  Central (most areas)

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- America/Chihuahua
  Mountain Time - Chihuahua (most areas)
- America/Costa_Rica
- America/Creston
  MST - BC (Creston)
- America/Cuiaba
  Mato Grosso
- America/Curacao
- America/Danmarkshavn
  National Park (east coast)
- America/Dawson
  Pacific - Yukon (north)
- America/Dawson_Creek
  MST - BC (Dawson Cr, Ft St John)
- America/Denver
  Mountain (most areas)
- America/Detroit
  Eastern - MI (most areas)
- America/Dominica
- America/Edmonton
  Mountain - AB; BC (E); SK (W)
- America/Eirunepe
  Amazonas (west)
- America/El_Salvador
- America/Fort_Nelson
  MST - BC (Ft Nelson)
- America/Fortaleza
  Brazil (northeast: MA, PI, CE, RN, PB)
- America/Glace_Bay
  Atlantic - NS (Cape Breton)
- America/Godthab
  Greenland (most areas)
- America/Goose_Bay
  Atlantic - Labrador (most areas)
- America/Grand_Turk
- America/Grenada

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- America/Guadeloupe
- America/Guatemala
- America/Guayaquil
  Ecuador (mainland)
- America/Guyana
- America/Halifax
  Atlantic - NS (most areas); PE
- America/Havana
- America/Hermosillo
  Mountain Standard Time - Sonora
- America/Indiana/Indianapolis
  Eastern - IN (most areas)
- America/Indiana/Knox
  Central - IN (Starke)
- America/Indiana/Marengo
  Eastern - IN (Crawford)
- America/Indiana/Petersburg
  Eastern - IN (Pike)
- America/Indiana/Tell_City
  Central - IN (Perry)
- America/Indiana/Vevay
  Eastern - IN (Switzerland)
- America/Indiana/Vincennes
  Eastern - IN (Da, Du, K, Mn)
- America/Indiana/Winamac
  Eastern - IN (Pulaski)
- America/Inuvik
  Mountain - NT (west)
- America/Iqaluit
  Eastern - NU (most east areas)
- America/Jamaica
- America/Juneau
  Alaska - Juneau area
- America/Kentucky/Louisville
  Eastern - KY (Louisville area)
- America/Kentucky/Monticello

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Eastern - KY (Wayne)

- America/Kralendijk
- America/La_Paz
- America/Lima
- America/Los_Angeles

  Pacific
- America/Lower_Princes
- America/Maceio

  Alagoas, Sergipe
- America/Managua
- America/Manaus

  Amazonas (east)
- America/Marigot
- America/Martinique
- America/Matamoros

  Central Time US - Coahuila, Nuevo Leon, Tamaulipas (US border)
- America/Mazatlan

  Mountain Time - Baja California Sur, Nayarit, Sinaloa
- America/Menominee

  Central - MI (Wisconsin border)
- America/Merida

  Central Time - Campeche, Yucatan
- America/Metlakatla

  Alaska - Annette Island
- America/Mexico_City

  Central Time
- America/Miquelon
- America/Moncton

  Atlantic - New Brunswick
- America/Monterrey

  Central Time - Durango; Coahuila, Nuevo Leon, Tamaulipas (most areas)
- America/Montevideo
- America/Montserrat
- America/Nassau
- America/New_York

  Eastern (most areas)

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- America/Nipigon
  Eastern - ON, QC (no DST 1967-73)
- America/Nome
  Alaska (west)
- America/Noronha
  Atlantic islands
- America/North_Dakota/Beulah
  Central - ND (Mercer)
- America/North_Dakota/Center
  Central - ND (Oliver)
- America/North_Dakota/New_Salem
  Central - ND (Morton rural)
- America/Ojinaga
  Mountain Time US - Chihuahua (US border)
- America/Panama
- America/Pangnirtung
  Eastern - NU (Pangnirtung)
- America/Paramaribo
- America/Phoenix
  MST - Arizona (except Navajo)
- America/Port-au-Prince
- America/Port_of_Spain
- America/Porto_Velho
  Rondonia
- America/Puerto_Rico
- America/Punta_Arenas
  Region of Magallanes
- America/Rainy_River
  Central - ON (Rainy R, Ft Frances)
- America/Rankin_Inlet
  Central - NU (central)
- America/Recife
  Pernambuco
- America/Regina
  CST - SK (most areas)
- America/Resolute

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Central - NU (Resolute)

- America/Rio_Branco
  Acre
- America/Santarem
  Para (west)
- America/Santiago
  Chile (most areas)
- America/Santo_Domingo
- America/Sao_Paulo
  Brazil (southeast: GO, DF, MG, ES, RJ, SP, PR, SC, RS)
- America/Scoresbysund
  Scoresbysund/Ittoqqortoormiit
- America/Sitka
  Alaska - Sitka area
- America/St_Barthelemy
- America/St_Johns
  Newfoundland; Labrador (southeast)
- America/St_Kitts
- America/St_Lucia
- America/St_Thomas
- America/St_Vincent
- America/Swift_Current
  CST - SK (midwest)
- America/Tegucigalpa
- America/Thule
  Thule/Pituffik
- America/Thunder_Bay
  Eastern - ON (Thunder Bay)
- America/Tijuana
  Pacific Time US - Baja California
- America/Toronto
  Eastern - ON, QC (most areas)
- America/Tortola
- America/Vancouver
  Pacific - BC (most areas)
- America/Whitehorse

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Pacific - Yukon (south)

- America/Winnipeg
  Central - ON (west); Manitoba
- America/Yakutat
  Alaska - Yakutat
- America/Yellowknife
  Mountain - NT (central)
- Antarctica/Casey
  Casey
- Antarctica/Davis
  Davis
- Antarctica/DumontDUrville
  Dumont-d'Urville
- Antarctica/Macquarie
  Macquarie Island
- Antarctica/Mawson
  Mawson
- Antarctica/McMurdo
  New Zealand time - McMurdo, South Pole
- Antarctica/Palmer
  Palmer
- Antarctica/Rothera
  Rothera
- Antarctica/Syowa
  Syowa
- Antarctica/Troll
  Troll
- Antarctica/Vostok
  Vostok
- Arctic/Longyearbyen
- Asia/Aden
- Asia/Almaty
  Kazakhstan (most areas)
- Asia/Amman
- Asia/Anadyr
  MSK+09 - Bering Sea

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- Asia/Aqtau
  Mangghystau/Mankistau
- Asia/Aqtobe
  Aqtobe/Aktobe
- Asia/Ashgabat
- Asia/Atyrau
  Atyrau/Atirau/Gur'yev
- Asia/Baghdad
- Asia/Bahrain
- Asia/Baku
- Asia/Bangkok
- Asia/Barnaul
  MSK+04 - Altai
- Asia/Beirut
- Asia/Bishkek
- Asia/Brunei
- Asia/Chita
  MSK+06 - Zabaykalsky
- Asia/Choibalsan
  Dornod, Sukhbaatar
- Asia/Colombo
- Asia/Damascus
- Asia/Dhaka
- Asia/Dili
- Asia/Dubai
- Asia/Dushanbe
- Asia/Famagusta
  Northern Cyprus
- Asia/Gaza
  Gaza Strip
- Asia/Hebron
  West Bank
- Asia/Ho_Chi_Minh
- Asia/Hong_Kong
- Asia/Hovd
  Bayan-Olgiy, Govi-Altai, Hovd, Uvs, Zavkhan

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- Asia/Irkutsk

  MSK+05 - Irkutsk, Buryatia
- Asia/Jakarta

  Java, Sumatra
- Asia/Jayapura

  New Guinea (West Papua / Irian Jaya); Malukus/Moluccas
- Asia/Jerusalem
- Asia/Kabul
- Asia/Kamchatka

  MSK+09 - Kamchatka
- Asia/Karachi
- Asia/Kathmandu
- Asia/Khandyga

  MSK+06 - Tomponsky, Ust-Maysky
- Asia/Kolkata
- Asia/Krasnoyarsk

  MSK+04 - Krasnoyarsk area
- Asia/Kuala_Lumpur

  Malaysia (peninsula)
- Asia/Kuching

  Sabah, Sarawak
- Asia/Kuwait
- Asia/Macau
- Asia/Magadan

  MSK+08 - Magadan
- Asia/Makassar

  Borneo (east, south); Sulawesi/Celebes, Bali, Nusa Tengarra; Timor (west)
- Asia/Manila
- Asia/Muscat
- Asia/Nicosia

  Cyprus (most areas)
- Asia/Novokuznetsk

  MSK+04 - Kemerovo
- Asia/Novosibirsk

  MSK+04 - Novosibirsk
- Asia/Omsk

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MSK+03 - Omsk

- Asia/Oral
  West Kazakhstan
- Asia/Phnom_Penh
- Asia/Pontianak
  Borneo (west, central)
- Asia/Pyongyang
- Asia/Qatar
- Asia/Qostanay
  Qostanay/Kostanay/Kustanay
- Asia/Qyzylorda
  Qyzylorda/Kyzylorda/Kzyl-Orda
- Asia/Riyadh
- Asia/Sakhalin
  MSK+08 - Sakhalin Island
- Asia/Samarkand
  Uzbekistan (west)
- Asia/Seoul
- Asia/Shanghai
  Beijing Time
- Asia/Singapore
- Asia/Srednekolymsk
  MSK+08 - Sakha (E); North Kuril Is
- Asia/Taipei
- Asia/Tashkent
  Uzbekistan (east)
- Asia/Tbilisi
- Asia/Tehran
- Asia/Thimphu
- Asia/Tokyo
- Asia/Tomsk
  MSK+04 - Tomsk
- Asia/Ulaanbaatar
  Mongolia (most areas)
- Asia/Urumqi
  Xinjiang Time

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- Asia/Ust-Nera
  MSK+07 - Oymyakonsky
- Asia/Vientiane
- Asia/Vladivostok
  MSK+07 - Amur River
- Asia/Yakutsk
  MSK+06 - Lena River
- Asia/Yangon
- Asia/Yekaterinburg
  MSK+02 - Urals
- Asia/Yerevan
- Atlantic/Azores
  Azores
- Atlantic/Bermuda
- Atlantic/Canary
  Canary Islands
- Atlantic/Cape_Verde
- Atlantic/Faroe
- Atlantic/Madeira
  Madeira Islands
- Atlantic/Reykjavik
- Atlantic/South_Georgia
- Atlantic/St_Helena
- Atlantic/Stanley
- Australia/Adelaide
  South Australia
- Australia/Brisbane
  Queensland (most areas)
- Australia/Broken_Hill
  New South Wales (Yancowinna)
- Australia/Currie
  Tasmania (King Island)
- Australia/Darwin
  Northern Territory
- Australia/Eucla
  Western Australia (Eucla)

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- Australia/Hobart
  Tasmania (most areas)
- Australia/Lindeman
  Queensland (Whitsunday Islands)
- Australia/Lord_Howe
  Lord Howe Island
- Australia/Melbourne
  Victoria
- Australia/Perth
  Western Australia (most areas)
- Australia/Sydney
  New South Wales (most areas)
- Europe/Amsterdam
- Europe/Andorra
- Europe/Astrakhan
  MSK+01 - Astrakhan
- Europe/Athens
- Europe/Belgrade
- Europe/Berlin
  Germany (most areas)
- Europe/Bratislava
- Europe/Brussels
- Europe/Bucharest
- Europe/Budapest
- Europe/Busingen
  Busingen
- Europe/Chisinau
- Europe/Copenhagen
- Europe/Dublin
- Europe/Gibraltar
- Europe/Guernsey
- Europe/Helsinki
- Europe/Isle_of_Man
- Europe/Istanbul
- Europe/Jersey
- Europe/Kaliningrad

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MSK-01 - Kaliningrad

- Europe/Kiev

  Ukraine (most areas)
- Europe/Kirov

  MSK+00 - Kirov
- Europe/Lisbon

  Portugal (mainland)
- Europe/Ljubljana
- Europe/London
- Europe/Luxembourg
- Europe/Madrid

  Spain (mainland)
- Europe/Malta
- Europe/Mariehamn
- Europe/Minsk
- Europe/Monaco
- Europe/Moscow

  MSK+00 - Moscow area
- Europe/Oslo
- Europe/Paris
- Europe/Podgorica
- Europe/Prague
- Europe/Riga
- Europe/Rome
- Europe/Samara

  MSK+01 - Samara, Udmurtia
- Europe/San_Marino
- Europe/Sarajevo
- Europe/Saratov

  MSK+01 - Saratov
- Europe/Simferopol

  MSK+00 - Crimea
- Europe/Skopje
- Europe/Sofia
- Europe/Stockholm
- Europe/Tallinn

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- Europe/Tirane
- Europe/Ulyanovsk
  MSK+01 - Ulyanovsk
- Europe/Uzhgorod
  Ruthenia
- Europe/Vaduz
- Europe/Vatican
- Europe/Vienna
- Europe/Vilnius
- Europe/Volgograd
  MSK+01 - Volgograd
- Europe/Warsaw
- Europe/Zagreb
- Europe/Zaporozhye
  Zaporozh'ye/Zaporizhia; Lugansk/Luhansk (east)
- Europe/Zurich
- Indian/Antananarivo
- Indian/Chagos
- Indian/Christmas
- Indian/Cocos
- Indian/Comoro
- Indian/Kerguelen
- Indian/Mahe
- Indian/Maldives
- Indian/Mauritius
- Indian/Mayotte
- Indian/Reunion
- Pacific/Apia
- Pacific/Auckland
  New Zealand (most areas)
- Pacific/Bougainville
  Bougainville
- Pacific/Chatham
  Chatham Islands
- Pacific/Chuuk
  Chuuk/Truk, Yap

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- Pacific/Easter
  Easter Island
- Pacific/Efate
- Pacific/Enderbury
  Phoenix Islands
- Pacific/Fakaofo
- Pacific/Fiji
- Pacific/Funafuti
- Pacific/Galapagos
  Galapagos Islands
- Pacific/Gambier
  Gambier Islands
- Pacific/Guadalcanal
- Pacific/Guam
- Pacific/Honolulu
  Hawaii
- Pacific/Kiritimati
  Line Islands
- Pacific/Kosrae
  Kosrae
- Pacific/Kwajalein
  Kwajalein
- Pacific/Majuro
  Marshall Islands (most areas)
- Pacific/Marquesas
  Marquesas Islands
- Pacific/Midway
  Midway Islands
- Pacific/Nauru
- Pacific/Niue
- Pacific/Norfolk
- Pacific/Noumea
- Pacific/Pago_Pago
- Pacific/Palau
- Pacific/Pitcairn
- Pacific/Pohnpei

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Pohnpei/Ponape
- Pacific/Port_Moresby
  Papua New Guinea (most areas)
- Pacific/Rarotonga
- Pacific/Saipan
- Pacific/Tahiti
  Society Islands
- Pacific/Tarawa
  Gilbert Islands
- Pacific/Tongatapu
- Pacific/Wake
  Wake Island
- Pacific/Wallis
- UTC
- Africa/Timbuktu
- America/Atka
- America/Ciudad_Juarez
- America/Coral_Harbour
- America/Coyhaique
- America/Ensenada
- America/Montreal
- America/Nuuk
- America/Porto_Acre
- America/Santa_Isabel
- America/Shiprock
- America/Virgin
- Asia/Chongqing
- Asia/Harbin
- Asia/Istanbul
- Asia/Kashgar
- Asia/Tel_Aviv
- Atlantic/Jan_Mayen
- Australia/Canberra
- Australia/Yancowinna
- Europe/Belfast
- Europe/Kyiv

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- Europe/Nicosia
- Europe/Tiraspol
- Pacific/Johnston
- Pacific/Kanton
- Pacific/Samoa
- Pacific/Yap

Configurable True

Platforms Supported on all platforms except IMGMT

configuration

Description Enter the configuration context

Top-level container for configuration and state data related to the system configuration

Context system configuration

Tree configuration

Configurable True

Platforms Supported on all platforms

auto-checkpoint *boolean*

Description Configuration checkpoint will be automatically created after every successful commit (if set to true).

Context system configuration auto-checkpoint *boolean*

Tree auto-checkpoint

Default false

Configurable True

Platforms Supported on all platforms

auto-save *boolean*

Description Configuration save will be automatically done after every successful commit (if set to true).

Context system configuration auto-save *boolean*

Tree auto-save

Default false

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Configurable	True
Platforms	Supported on all platforms

bootconfig

Description	Enter the bootconfig context gNOI BootConfig actions
Context	system configuration bootconfig
Tree	bootconfig
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate name *string*

Description	List of configuration candidates currently active
Context	system configuration candidate name *string*
Tree	candidate
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	Name of the configuration candidate
Context	system configuration candidate name *string*
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

lock

Description	Execute the lock action

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Lock the candidate

Prevents modifications from other configuration sessions.

Context system configuration candidate name *string* lock

Tree lock

Configurable False

Note This is an action command

Platforms future-0-0 and tools-as-modeled-actions-different-io-common

started *string*

Description Start date and time of the configuration session

Context system configuration candidate name *string* started *string*

Tree started

String Length 20 to 32

Configurable False

Platforms Supported on all platforms

type *keyword*

Description Type of configuration candidate

Context system configuration candidate name *string* type *keyword*

Tree type

Options

- shared
- private

Configurable False

Platforms Supported on all platforms

unlock

Description Execute the unlock action

Unlock the candidate

Allows modifications from other configuration sessions.

Context system configuration candidate name *string* unlock

Tree unlock

Configurable False

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Note	This is an action command
Platforms	future-0-0 and tools-as-modeled-actions-different-io-common

username *string*

Description	User that started the configuration session
Context	system configuration candidate name *string* username *string*
Tree	username
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

checkpoint id *number*

Description	List of current checkpoints present in the system
Context	system configuration checkpoint id *number*
Tree	checkpoint
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	System generated ID for the checkpoint
Context	system configuration checkpoint id *number*
Configurable	False
Platforms	Supported on all platforms

comment *string*

Description	User provided annotations associated with the checkpoint
Context	system configuration checkpoint id *number* comment *string*
Tree	comment
Configurable	False
Platforms	Supported on all platforms

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created *string*

Description	Date and time this checkpoint was created
Context	system configuration checkpoint id *number* created *string*
Tree	created
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	User provided name of the checkpoint
Context	system configuration checkpoint id *number* name *string*
Tree	name
Configurable	False
Platforms	Supported on all platforms

size *number*

Description	Size of the checkpoint configuration file
Context	system configuration checkpoint id *number* size *number*
Tree	size
Units	bytes
Configurable	False
Platforms	Supported on all platforms

tag *string*

Description	Full system version that the checkpoint was generated on
Context	system configuration checkpoint id *number* tag *string*
Tree	tag
Configurable	False
Platforms	Supported on all platforms

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username *string*

Description	Username that created this checkpoint
Context	system configuration checkpoint id *number* username *string*
Tree	username
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

version *string*

Description	System version that the checkpoint was generated on
Context	system configuration checkpoint id *number* version *string*
Tree	version
Configurable	False
Platforms	Supported on all platforms

commit id *number*

Description	List of configuration transactions
Context	system configuration commit id *number*
Tree	commit
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	System identifier for the commit
Context	system configuration commit id *number*
Configurable	False
Platforms	Supported on all platforms

comment *string*

Description	Operator provided comment associated with this commit
Context	system configuration commit id *number* comment *string*

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Tree	comment
Configurable	False
Platforms	Supported on all platforms

ended *string*

Description	End date and time of the commit This field is not populated if the commit is in progress
Context	system configuration commit id *number* ended *string*
Tree	ended
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	Name of the configuration candidate the commit was triggered from
Context	system configuration commit id *number* name *string*
Tree	name
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

persist-id *string*

Description	Persistent confirmed commit identifier
Context	system configuration commit id *number* persist-id *string*
Tree	persist-id
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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started *string*

Description	Start date and time of the commit
Context	system configuration commit id *number* started *string*
Tree	started
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

status *keyword*

Description	Current status of the commit
Context	system configuration commit id *number* status *keyword*
Tree	status
Options	• validating • publishing • unconfirmed • checkpoint • save • complete • reverting • failed
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	Type of configuration candidate the commit was triggered from
Context	system configuration commit id *number* type *keyword*
Tree	type
Options	• shared • private
Configurable	False
Platforms	Supported on all platforms

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username *string*

Description	User that started the commit
Context	system configuration commit id *number* username *string*
Tree	username
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

idle-timeout *number*

Description	The idle timeout of configuration candidates After this period of no activity, the candidate is emptied and removed from the system.
Context	system configuration idle-timeout *number*
Tree	idle-timeout
Default	10080
Units	minutes
Configurable	True
Platforms	Supported on all platforms

last-change *string*

Description	Date and time of the last successful commit Set to the time the configuration was loaded by management server, so is refreshed at boot time.
Context	system configuration last-change *string*
Tree	last-change
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

lock

Description	Execute the lock action Lock the running configuration

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Prevents commits from other configuration sessions.

Context	system configuration lock
Tree	lock
Configurable	True
Note	This is an action command
Platforms	future-0-0 and tools-as-modeled-actions-different-io-common

max-candidates *number*

Description	The maximum number of combined private and shared candidates
Context	system configuration max-candidates *number*
Tree	max-candidates
Range	1 to 255
Default	10
Configurable	True
Platforms	Supported on all platforms

max-checkpoints *number*

Description	The number of checkpoints kept by the system
Context	system configuration max-checkpoints *number*
Tree	max-checkpoints
Range	1 to 255
Default	10
Configurable	True
Platforms	Supported on all platforms

max-paths-per-subscription-request *number*

Description	The maximum number of paths that can be subscribed to in a single subscription request
Context	system configuration max-paths-per-subscription-request *number*
Tree	max-paths-per-subscription-request
Range	1 to 500
Default	36
Configurable	True

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Platforms Supported on all platforms

pathz

Description Enter the pathz context

Information relating to the active Pathz authorization policy instances

This policies is provided by the gNSI gRPC service, and can be changed using the gNSI.Pathz.Rotate RPC

Context system configuration pathz

Tree pathz

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

collect-policy-success-failure-counters *boolean*

Description Indicates whether the gNSI.pathz module should collect access counters information.

Context system configuration pathz collect-policy-success-failure-counters *boolean*

Tree collect-policy-success-failure-counters

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policy instance *keyword*

Description Information about freshness of an schema-path-based Pathz authorization policy that have been installed on the device using the gNSI schema-path-based Pathz authorization policy management service.

Context system configuration pathz policy instance *keyword*

Tree policy

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance *keyword*

Description Enter the instance context

Context system configuration pathz policy instance *keyword*

Options

- ACTIVE

  The Pathz authorization policy that is currently used to authorize access.

- SANDBOX

  The most recent Pathz policy that has been uploaded during the Rotation RPC. If there is no Rotate() RPC in progress, then the values of version and created-on will be empty.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The timestamp of the moment when the Pathz policy was created (sent by the gNSI client).

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Context	system configuration pathz policy instance *keyword* created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy *string*

Description	The policy definition This JSON string contains the full gRPC authorization policy conforming to the gRPC Path-based authorization policy schema. This maps to the policy field within a UploadRequest message in the Pathz protobuf.
Context	system configuration pathz policy instance *keyword* policy *string*
Tree	policy
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version of the Pathz authorization policy (sent by the gNSI client).
Context	system configuration pathz policy instance *keyword* version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

use-exclusively *boolean*

Description Indicates whether the Pathz authorization policy should be used exclusively for access authorization.

If set to true, the Pathz authorization policy will be used exclusively, any statically configured RBAC rules will be ignored. If set to false, the Pathz authorization policy will be used together with the statically configured RBAC rules (evaluating both policies and taking the logical conjunction of the results).

Context system configuration pathz use-exclusively *boolean*

Tree use-exclusively

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pathz-policy

Description Top-level container for operational commands relating to Pathz gRPC policies

Context system configuration pathz-policy

Tree pathz-policy

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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role name *reference*

Description	List of roles configured in the system
Context	system configuration role name *reference*
Tree	role
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

name *reference*

Description	Enter the name context
Context	system configuration role name *reference*
Reference	system aaa authorization role rolename *string*
Configurable	True
Platforms	Supported on all platforms

oc-rule path-reference *string*

Description	List of OpenConfig paths to perform access control against These rules mirror the 'rule' list but are evaluated as static RBAC by the OpenConfig management server against OpenConfig paths. The 'rule' list applies to the native management interface (paths in native YANG notation), whereas this 'oc-rule' list applies to access performed via the OpenConfig management server (paths in OpenConfig notation).
Context	system configuration role name *reference* oc-rule path-reference *string*
Tree	oc-rule
Configurable	True
Platforms	Supported on all platforms
Max. Elements	256

path-reference *string*

Description	Reference to a valid OpenConfig YANG path, in CLI notation This path may include keys, wildcards, ranges, and other management server supported constructs. Ranges will be expanded. The root path can be specified with '/'.

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E.g. / "/interfaces interface mgmt0" "/interfaces interface mgmt0 config enabled"

Context system configuration role name *reference* oc-rule path-reference *string*

Configurable True

Platforms Supported on all platforms

action *keyword*

Description Action to allow for this path

Context system configuration role name *reference* oc-rule path-reference *string* action *keyword*

Tree action

Options

- read

  This path may be read by the role

- write

  This path may be written and read by the role

- deny

  This path may not be read or written to by the role

Configurable True

Platforms Supported on all platforms

rule path-reference *string*

Description List of paths to perform access control against

Context system configuration role name *reference* rule path-reference *string*

Tree rule

Configurable True

Platforms Supported on all platforms

Max. Elements 256

path-reference *string*

Description Reference to a valid YANG path, in CLI notation

This path may include keys, wildcards, ranges, and other management server supported constructs. Ranges will be expanded. The root path can be specified with '/'.

E.g. / "/interface" "/acl ipv4-filter foo* description"

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Context	system configuration role name *reference* rule path-reference *string*
Configurable	True
Platforms	Supported on all platforms

action *keyword*

Description	Action to allow for this path
Context	system configuration role name *reference* rule path-reference *string* action *keyword*
Tree	action
Options	• read This path may be read by the role • write This path may be written and read by the role • deny This path may not be read or written to by the role
Configurable	True
Platforms	Supported on all platforms

session id *number*

Description	List of configuration sessions currently active
Context	system configuration session id *number*
Tree	session
Configurable	False
Platforms	Supported on all platforms

id *number*

Description	System generated ID for the configuration session
Context	system configuration session id *number*
Configurable	False
Platforms	Supported on all platforms

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exclusive *boolean*

Description	Details if this session is running in exclusive mode
Context	system configuration session id *number* exclusive *boolean*
Tree	exclusive
Configurable	False
Platforms	Supported on all platforms

name *string*

Description	Name of the candidate the session is active on Set to 'default' if a non-named candidate is active
Context	system configuration session id *number* name *string*
Tree	name
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

started *string*

Description	Start date and time of the configuration session
Context	system configuration session id *number* started *string*
Tree	started
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

type *keyword*

Description	Type of configuration session
Context	system configuration session id *number* type *keyword*
Tree	type
Options	• shared • private
Configurable	False

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Platforms	Supported on all platforms

username *string*

Description	User that started the configuration session
Context	system configuration session id *number* username *string*
Tree	username
String Length	1 to 255
Configurable	False
Platforms	Supported on all platforms

strict-request-path-verification *boolean*

Description	Verify access for the requested paths before processing the get/set/subscribe request
Context	system configuration strict-request-path-verification *boolean*
Tree	strict-request-path-verification
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unlock

Description	Execute the unlock action Unlock the running configuration Allows commits from other configuration sessions.
Context	system configuration unlock
Tree	unlock
Configurable	True
Note	This is an action command
Platforms	future-0-0 and tools-as-modeled-actions-different-io-common

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control-plane-traffic

Description	Enter the control-plane-traffic context Container for the control plane traffic.
Context	system control-plane-traffic
Tree	control-plane-traffic
Configurable	True
Platforms	Supported on all platforms except IMGMT

input

Description	Enter the input context Container for ingress control plane traffic.
Context	system control-plane-traffic input
Tree	input
Configurable	True
Platforms	Supported on all platforms except IMGMT

acl

Description	Enter the acl context Container for ACL.
Context	system control-plane-traffic input acl
Tree	acl
Configurable	True
Platforms	Supported on all platforms except IMGMT

acl-filter name *reference* type *reference*

Description	List MAC, IPv4, IPv6 ACL filter(s) to be applied on this subinterface direction
Context	system control-plane-traffic input acl acl-filter name *reference* type *reference*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms except IMGMT

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name *reference*

Description	Referencence to the ACL Filter policy name
Context	system control-plane-traffic input acl acl-filter name *reference* type *reference*
Reference	acl acl-filter name *string* type *keyword*
Configurable	True
Platforms	Supported on all platforms except IMGMT

type *reference*

Description	Referencence to the ACL Filter policy type
Context	system control-plane-traffic input acl acl-filter name *reference* type *reference*
Reference	acl acl-filter type
Configurable	True
Platforms	Supported on all platforms except IMGMT

output

Description	Enter the output context Defines parameters determining the handling of system generated traffic.
Context	system control-plane-traffic output
Tree	output
Configurable	True
Platforms	Supported on all platforms except IMGMT

qos

Description	Enter the qos context Parameters describing QoS handling of system generated traffic
Context	system control-plane-traffic output qos
Tree	qos
Configurable	True
Platforms	Supported on all platforms except IMGMT

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management-protocols-dscp *(number | keyword)*

Description Defines dscp value the system generated traffic by management-protocols should be marked with

Context system control-plane-traffic output qos management-protocols-dscp *(number | keyword)*

Tree management-protocols-dscp

Range 0 to 63

Default 32

Options

- CS0
- LE
- CS1
- AF11
- AF12
- AF13
- CS2
- AF21
- AF22
- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

datapath

Description Enter the datapath context

Context for system wide forwarding options

Context system datapath

Tree datapath

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-mode *keyword*

Description The forwarding mode for Ethernet frames received on all eligible ports of the system

In store-and-forward mode, the forwarding of an Ethernet frame received on a particular port must wait until the entire Ethernet frame has been received, including the trailing 4-byte CRC; if the CRC is valid the packet is forwarded to the egress port based on the L2/L3 lookup result but if the CRC is invalid the frame is discarded and the in-error-packets counter is incremented.

In cut-through mode, the forwarding ASIC does the L2/L3 forwarding lookup as soon as it has read the necessary packet headers. If the target egress queue of the egress port is not congested the bytes of the received frame are transmitted across the switch fabric as they are received. The fully intact frame is transmitted from the egress port as soon as all the bytes have been received.

Context system datapath forwarding-mode *keyword*

Tree forwarding-mode

Default store-and-forward

Options

- store-and-forward
- cut-through

Configurable True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

icmp

Description Enter the icmp context

Context for system-wide control of ICMP message generation

Context system datapath icmp

Tree icmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-limit-per-host

Description Enter the rate-limit-per-host context

Context for controller rate limiting behavior per host

Context system datapath icmp rate-limit-per-host

Tree rate-limit-per-host

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-burst *number*

Description The maximum burst size for generated ICMP messages sent towards each host

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A token bucket is maintained for each of the last 1000 IPv4 senders that generated traffic requiring ICMP messages to be sent back to them. Each token bucket has a maximum depth, counted in terms of ICMP messages, controlled by this max-burst parameter and a fill/drain rate controlled by the peak-rate parameter

Context system datapath icmp rate-limit-per-host max-burst *number*

Tree max-burst

Range 1 to 50

Default 10

Units packets

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate *number*

Description The peak rate for generated ICMP messages sent towards each host

A token bucket is maintained for each of the last 1000 IPv4 senders that generated traffic requiring ICMP messages to be sent back to them. Each token bucket has a maximum depth, counted in terms of ICMP messages, controlled by the max-burst parameter and a fill/drain rate controlled by this peak-rate parameter

Context system datapath icmp rate-limit-per-host peak-rate *number*

Tree peak-rate

Range 1 to 20

Default 10

Units packets-per-second

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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icmp6

Description Enter the icmp6 context

Context for system-wide control of ICMPv6 message generation

Context system datapath icmp6

Tree icmp6

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate-limit-per-host

Description Enter the rate-limit-per-host context

Context for controller rate limiting behavior per host

Context system datapath icmp6 rate-limit-per-host

Tree rate-limit-per-host

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-burst *number*

Description The maximum burst size for generated ICMP messages sent towards each host

A token bucket is maintained for each of the last 1000 IPv6 senders that generated traffic requiring ICMPv6 messages to be sent back to them. Each token bucket has a maximum depth, counted in terms of ICMP messages, controlled by this max-burst parameter and a fill/drain rate controlled by the peak-rate parameter

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Context	system datapath icmp6 rate-limit-per-host max-burst *number*
Tree	max-burst
Range	1 to 50
Default	10
Units	packets
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peak-rate *number*

Description	The peak rate for generated ICMP messages sent towards each host A token bucket is maintained for each of the last 1000 IPv6 senders that generated traffic requiring ICMPv6 messages to be sent back to them. Each token bucket has a maximum depth, counted in terms of ICMP messages, controlled by the max-burst parameter and a fill/drain rate controlled by this peak-rate parameter
Context	system datapath icmp6 rate-limit-per-host peak-rate *number*
Tree	peak-rate
Range	1 to 20
Default	10
Units	packets-per-second
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

secondary-default-lookup

Description	Enter the secondary-default-lookup context

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Container with options to control fallback routing achieved by doing a secondary FIB lookup in the default network-instance

Context system datapath secondary-default-lookup

Tree secondary-default-lookup

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable or disable the secondary lookup

When set to enable all IPv4 and IPv6 routes of the default network-instance are programmed into the kaps-public table and fallback routing can be enabled in any ip-vrf network-instance by programming it with a default route having a redirect-to-default next-hop action.

A change in the value of this leaf does not take effect until the next chassis reboot.

Context system datapath secondary-default-lookup admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis-reboot-required *boolean*

Description Reads true if the user has committed a change in the configuration of secondary-default-lookup but has not yet saved the config and restarted the system, so previous configuration is still in effect

Context system datapath secondary-default-lookup chassis-reboot-required *boolean*

Tree chassis-reboot-required

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Indicates whether secondary default lookup is active in the system or not

Context system datapath secondary-default-lookup oper-state *keyword*

Tree oper-state

Options

- active

  Secondary default lookup is active

- inactive

  Secondary default lookup is inactive

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context for controlling how the datapath collects and publishes forwarding statistics

Context system datapath statistics

Tree statistics

Configurable True

Platforms queue-stats-poll-interval

queue

Description Enter the queue context

Context for controlling the collection of queue statistics

Context system datapath statistics queue

Tree queue

Configurable True

Platforms queue-stats-poll-interval

polling-interval *number*

Description The interval at which queue statistics are collected from the forwarding hardware

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This interval applies to interface queue statistics, including per-LAG-member statistics, and to subinterface queue statistics. It is applied to every forwarding complex in the system.

When this leaf is not configured each forwarding complex collects at its existing default interval, which depends on the chipset generation and on whether the statistics are for interface queues or subinterface queues.

Configuring an interval shorter than a forwarding complex default increases the rate at which statistics are read from hardware and published, and therefore increases control plane load.

Context system datapath statistics queue polling-interval *number*

Tree polling-interval

Range 1 | 2 | 5 | 10 | 20 | 30 | 45 | 60

Units seconds

Configurable True

Platforms queue-stats-poll-interval

dhcp-relay

Description Enter the dhcp-relay context

Context system dhcp-relay

Tree dhcp-relay

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcp-server

Description Configures the dhcp server

Context system dhcp-server

Tree dhcp-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Globally enable or disable the dhcp server Disabling this will disable all dhcp servers.

Context system dhcp-server admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *reference*

Description List of network instances to run a dhcp server in

Context system dhcp-server network-instance name *reference*

Tree network-instance

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *reference*

Description Reference to a configured network instance

Context system dhcp-server network-instance name *reference*

Reference network-instance name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcpv4

Description Enter the dhcpv4 context

Context system dhcp-server network-instance name *reference* dhcpv4

Tree dhcpv4

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the dhcp server

Context system dhcp-server network-instance name *reference* dhcpv4 admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details if the dhcp server is operationally available

Context system dhcp-server network-instance name *reference* dhcpv4 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

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Component or process is currently warm rebooting

This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description Enter the options context

Context system dhcp-server network-instance name *reference* dhcpv4 options

Tree options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bootfile-name *string*

Description The name of the configuration file the client will use during booting - option 67

Context system dhcp-server network-instance name *reference* dhcpv4 options bootfile-name *string*

Tree bootfile-name

String Length 1 to 128

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom code *number*

Description	List of custom DHCP options
Context	system dhcp-server network-instance name *reference* dhcpv4 options custom code *number*
Tree	custom
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

code *number*

Description	The code of the DHCP option
Context	system dhcp-server network-instance name *reference* dhcpv4 options custom code *number*
Range	1 to 254
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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always-send *boolean*

Description If true, the option will always be sent to the client, even if it is not configured in the client request

Context system dhcp-server network-instance name *reference* dhcpv4 options custom code *number* always-send *boolean*

Tree always-send

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encoding *identityref*

Description The encoding of the value of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 options custom code *number* encoding *identityref*

Tree encoding

Default string

Options

- string

  DHCP option encoding type for strings

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The value of the DHCP option

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Context	system dhcp-server network-instance name *reference* dhcpv4 options custom code *number* value *string*
Tree	value
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-server *string*

Description	An Ordered List of DNS servers to return to the dhcp client - option 6
Context	system dhcp-server network-instance name *reference* dhcpv4 options dns-server *string*
Tree	dns-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

domain-name *string*

Description	The domain name to return to the dhcp client that the client should use when resolving hostnames via the Domain Name System - option 15
Context	system dhcp-server network-instance name *reference* dhcpv4 options domain-name *string*
Tree	domain-name
String Length	1 to 253
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-search-list *string*

Description	An ordered list of domains to return to the dhcp client that the client should search when resolving hostnames - option 119
Context	system dhcp-server network-instance name *reference* dhcpv4 options domain-search-list *string*
Tree	domain-search-list
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

hostname *string*

Description	Host Name option of the dhcp client - option 12
Context	system dhcp-server network-instance name *reference* dhcpv4 options hostname *string*
Tree	hostname
String Length	1 to 63
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-mtu *number*

Description This option specifies the MTU to use on this interface - option 26

Context system dhcp-server network-instance name *reference* dhcpv4 options interface-mtu *number*

Tree interface-mtu

Range 68 to 9412

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lease-time *number*

Description The time in seconds that the client should use the IP address before it must renew its lease - option 51

Context system dhcp-server network-instance name *reference* dhcpv4 options lease-time *number*

Tree lease-time

Range 60 to 4294967295

Default 86400

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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next-server *string*

Description The IP address of the next server to use for booting - option 54

Context system dhcp-server network-instance name *reference* dhcpv4 options next-server *string*

Tree next-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ntp-server *string*

Description List of NTP Servers to return to the dhcp client - option 42

Context system dhcp-server network-instance name *reference* dhcpv4 options ntp-server *string*

Tree ntp-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

router *string*

Description IPv4 address of the gateway for the dhcp client - option 3

Context system dhcp-server network-instance name *reference* dhcpv4 options router *string*

Tree router

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-id *string*

Description IP address the dhcp server must match any address within the network_ instance e.g. sub-interface primary address, loopback address, anycast gateway address in case of multihoming - option 54

Context system dhcp-server network-instance name *reference* dhcpv4 options server-id *string*

Tree server-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-route destination *string*

Description This option can contain one or more static routes, each of which consists of a destination descriptor and the IP address of the router that should be used to reach that destination - option 121

Context system dhcp-server network-instance name *reference* dhcpv4 options static-route destination *string*

Tree static-route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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Max. Elements 16

destination *string*

Description A destination descriptor

Context system dhcp-server network-instance name *reference* dhcpv4 options static-route destination *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router *string*

Description IP address of the router that should be used to reach that destination

Context system dhcp-server network-instance name *reference* dhcpv4 options static-route destination *string* router *string*

Tree router

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tftp-server-address *string*

Description List of IP address of the TFTP servers the client will use to download bootfile/configuration script - option 150

Context system dhcp-server network-instance name *reference* dhcpv4 options tftp-server-address *string*

Tree tftp-server-address

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

tftp-server-name *string*

Description	FQDN of the TFTP server the client will use to download bootfile/ configuration script - option 66
Context	system dhcp-server network-instance name *reference* dhcpv4 options tftp-server-name *string*
Tree	tftp-server-name
String Length	1 to 63
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-allocation

Description	Enter the static-allocation context
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation
Tree	static-allocation
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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host mac *string*

Description host name for static ip allocations

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string*

Tree host

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac *string*

Description Enter the mac context

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description Enter the ip-address context

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* ip-address *string*

Tree ip-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description Enter the options context

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options

Tree options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bootfile-name *string*

Description The name of the configuration file the client will use during booting - option 67

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options bootfile-name *string*

Tree bootfile-name

String Length 1 to 128

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom code *number*

Description List of custom DHCP options

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Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options custom code *number*
Tree	custom
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

code *number*

Description	The code of the DHCP option
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options custom code *number*
Range	1 to 254
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

always-send *boolean*

Description	If true, the option will always be sent to the client, even if it is not configured in the client request
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options custom code *number* always-send *boolean*
Tree	always-send
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encoding *identityref*

Description The encoding of the value of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options custom code *number* encoding *identityref*

Tree encoding

Default string

Options

- string

  DHCP option encoding type for strings

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The value of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options custom code *number* value *string*

Tree value

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dns-server *string*

Description	An Ordered List of DNS servers to return to the dhcp client - option 6
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options dns-server *string*
Tree	dns-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

domain-name *string*

Description	The domain name to return to the dhcp client that the client should use when resolving hostnames via the Domain Name System - option 15
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options domain-name *string*
Tree	domain-name
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-search-list *string*

Description	An ordered list of domains to return to the dhcp client that the client should search when resolving hostnames - option 119
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options domain-search-list *string*

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Tree	domain-search-list
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

hostname *string*

Description	Host Name option of the dhcp client - option 12
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options hostname *string*
Tree	hostname
String Length	1 to 63
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-mtu *number*

Description	This option specifies the MTU to use on this interface - option 26
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options interface-mtu *number*
Tree	interface-mtu
Range	68 to 9412
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lease-time *number*

Description The time in seconds that the client should use the IP address before it must renew its lease - option 51

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options lease-time *number*

Tree lease-time

Range 60 to 4294967295

Default 86400

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-server *string*

Description The IP address of the next server to use for booting - option 54

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options next-server *string*

Tree next-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ntp-server *string*

Description	List of NTP Servers to return to the dhcp client - option 42
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options ntp-server *string*
Tree	ntp-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

router *string*

Description	IPv4 address of the gateway for the dhcp client - option 3
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options router *string*
Tree	router
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-id *string*

Description	IP address the dhcp server must match any address within the network_ instance e.g. sub-interface primary address, loopback address, anycast gateway address in case of multihoming - option 54
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options server-id *string*
Tree	server-id

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-route destination *string*

Description	This option can contain one or more static routes, each of which consists of a destination descriptor and the IP address of the router that should be used to reach that destination - option 121
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options static-route destination *string*
Tree	static-route
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

destination *string*

Description	A destination descriptor
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options static-route destination *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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router *string*

Description	IP address of the router that should be used to reach that destination
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options static-route destination *string* router *string*
Tree	router
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tftp-server-address *string*

Description	List of IP address of the TFTP servers the client will use to download bootfile/configuration script - option 150
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options tftp-server-address *string*
Tree	tftp-server-address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	2

tftp-server-name *string*

Description	FQDN of the TFTP server the client will use to download bootfile/configuration script - option 66
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation host mac *string* options tftp-server-name *string*
Tree	tftp-server-name

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String Length	1 to 63
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

relay-information circuit-id *string* remote-id *string*

Description	DHCPv4 relay information
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string*
Tree	relay-information
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

circuit-id *string*

Description	The circuit ID of the DHCPv4 relay agent
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remote-id *string*

Description The remote ID of the DHCPv4 relay agent

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description Enter the ip-address context

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* ip-address *string*

Tree ip-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description Enter the options context

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options

Tree options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bootfile-name *string*

Description The name of the configuration file the client will use during booting - option 67

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options bootfile-name *string*

Tree bootfile-name

String Length 1 to 128

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom code *number*

Description List of custom DHCP options

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options custom code *number*

Tree custom

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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code *number*

Description The code of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options custom code *number*

Range 1 to 254

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

always-send *boolean*

Description If true, the option will always be sent to the client, even if it is not configured in the client request

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options custom code *number* always-send *boolean*

Tree always-send

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encoding *identityref*

Description The encoding of the value of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options custom code *number* encoding *identityref*

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Tree encoding

Default string

Options

- string

  DHCP option encoding type for strings

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The value of the DHCP option

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options custom code *number* value *string*

Tree value

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-server *string*

Description An Ordered List of DNS servers to return to the dhcp client - option 6

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options dns-server *string*

Tree dns-server

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

domain-name *string*

Description	The domain name to return to the dhcp client that the client should use when resolving hostnames via the Domain Name System - option 15
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options domain-name *string*
Tree	domain-name
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-search-list *string*

Description	An ordered list of domains to return to the dhcp client that the client should search when resolving hostnames - option 119
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options domain-search-list *string*
Tree	domain-search-list
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4

hostname *string*

Description Host Name option of the dhcp client - option 12

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options hostname *string*

Tree hostname

String Length 1 to 63

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-mtu *number*

Description This option specifies the MTU to use on this interface - option 26

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options interface-mtu *number*

Tree interface-mtu

Range 68 to 9412

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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lease-time *number*

Description The time in seconds that the client should use the IP address before it must renew its lease - option 51

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options lease-time *number*

Tree lease-time

Range 60 to 4294967295

Default 86400

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-server *string*

Description The IP address of the next server to use for booting - option 54

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options next-server *string*

Tree next-server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ntp-server *string*

Description List of NTP Servers to return to the dhcp client - option 42

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Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options ntp-server *string*
Tree	ntp-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

router *string*

Description	IPv4 address of the gateway for the dhcp client - option 3
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options router *string*
Tree	router
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-id *string*

Description	IP address the dhcp server must match any address within the network_ instance e.g. sub-interface primary address, loopback address, anycast gateway address in case of multihoming - option 54
Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options server-id *string*
Tree	server-id
Configurable	True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static-route destination *string*

Description This option can contain one or more static routes, each of which consists of a destination descriptor and the IP address of the router that should be used to reach that destination - option 121

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options static-route destination *string*

Tree static-route

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 16

destination *string*

Description A destination descriptor

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options static-route destination *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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router *string*

Description IP address of the router that should be used to reach that destination

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options static-route destination *string* router *string*

Tree router

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tftp-server-address *string*

Description List of IP address of the TFTP servers the client will use to download bootfile/configuration script - option 150

Context system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options tftp-server-address *string*

Tree tftp-server-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 2

tftp-server-name *string*

Description FQDN of the TFTP server the client will use to download bootfile/configuration script - option 66

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Context	system dhcp-server network-instance name *reference* dhcpv4 static-allocation relay-information circuit-id *string* remote-id *string* options tftp-server-name *string*
Tree	tftp-server-name
String Length	1 to 63
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	system dhcp-server network-instance name *reference* dhcpv4 statistics
Tree	statistics
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description	Total discarded dhcp packets from dhcp client(s)
Context	system dhcp-server network-instance name *reference* dhcpv4 statistics client-packets-discarded *number*
Tree	client-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description Total received dhcp packets from dhcp client(s)

Context system dhcp-server network-instance name *reference* dhcpv4 statistics client-packets-received *number*

Tree client-packets-received

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server-packets-sent *number*

Description Total dhcp packets sent from DHCP server towards dhcp client(s)

Context system dhcp-server network-instance name *reference* dhcpv4 statistics server-packets-sent *number*

Tree server-packets-sent

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

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Container for tracing DHCP server operations instance

Context system dhcp-server network-instance name *reference* dhcpv4 trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description List of events to trace

Context system dhcp-server network-instance name *reference* dhcpv4 trace-options trace *keyword*

Tree trace

Options

- messages

  Capture all DHCP server messages sent and received

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcpv6

Description Enter the dhcpv6 context

Context system dhcp-server network-instance name *reference* dhcpv6

Tree dhcpv6

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the dhcp server

Context system dhcp-server network-instance name *reference* dhcpv6 admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details if the dhcp server is operationally available

Context system dhcp-server network-instance name *reference* dhcpv6 oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

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Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description Enter the options context

Context system dhcp-server network-instance name *reference* dhcpv6 options

Tree options

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-server *string*

Description	An Ordered List of DNS servers to return to the dhcp client
Context	system dhcp-server network-instance name *reference* dhcpv6 options dns-server *string*
Tree	dns-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

domain-search-list *string*

Description	An ordered list of domains to return to the dhcp client that the client should search when resolving hostnames
Context	system dhcp-server network-instance name *reference* dhcpv6 options domain-search-list *string*
Tree	domain-search-list
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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Max. Elements 4

static-allocation

Description Enter the static-allocation context

Context system dhcp-server network-instance name *reference* dhcpv6 static-allocation

Tree static-allocation

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host mac *string*

Description host name for static ip allocations

Context system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string*

Tree host

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac *string*

Description Enter the mac context

Context system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string*

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *string*

Description Enter the ip-address context

Context system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string* ip-address *string*

Tree ip-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description Enter the options context

Context system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string* options

Tree options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dns-server *string*

Description	An Ordered List of DNS servers to return to the dhcp client
Context	system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string* options dns-server *string*
Tree	dns-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

domain-search-list *string*

Description	An ordered list of domains to return to the dhcp client that the client should search when resolving hostnames
Context	system dhcp-server network-instance name *reference* dhcpv6 static-allocation host mac *string* options domain-search-list *string*
Tree	domain-search-list
String Length	1 to 253
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	4

statistics

Description	Enter the statistics context
Context	system dhcp-server network-instance name *reference* dhcpv6 statistics
Tree	statistics

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-discarded *number*

Description	Total discarded dhcp packets from dhcp client(s)
Context	system dhcp-server network-instance name *reference* dhcpv6 statistics client-packets-discarded *number*
Tree	client-packets-discarded
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client-packets-received *number*

Description	Total received dhcp packets from dhcp client(s)
Context	system dhcp-server network-instance name *reference* dhcpv6 statistics client-packets-received *number*
Tree	client-packets-received
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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server-packets-sent *number*

Description Total dhcp packets sent from DHCP server towards dhcp client(s)

Context system dhcp-server network-instance name *reference* dhcpv6 statistics server-packets-sent *number*

Tree server-packets-sent

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Container for tracing DHCP server operations instance

Context system dhcp-server network-instance name *reference* dhcpv6 trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace *keyword*

Description List of events to trace

Context system dhcp-server network-instance name *reference* dhcpv6 trace-options trace *keyword*

Tree trace

Options

- messages

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Capture all DHCP server messages sent and received

Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dns-instance name *string*

Description	Enter the dns-instance list instance
Context	system dns-instance name *string*
Tree	dns-instance
Configurable	True
Platforms	Supported on all platforms except IMGMT
Max. Elements	8

name *string*

Description	User-provided name for DNS instance
Context	system dns-instance name *string*
String Length	1 to 247
Configurable	True
Platforms	Supported on all platforms except IMGMT

host-entry name *string*

Description	List of static host entries
Context	system dns-instance name *string* host-entry name *string*
Tree	host-entry
Configurable	True
Platforms	Supported on all platforms except IMGMT

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name *string*

Description	Name of host entry
Context	system dns-instance name *string* host-entry name *string*
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms except IMGMT

ipv4-address *string*

Description	List of IPv4 addresses for the host entry
Context	system dns-instance name *string* host-entry name *string* ipv4-address *string*
Tree	ipv4-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

ipv6-address *string*

Description	List of IPv6 addresses for the host entry
Context	system dns-instance name *string* host-entry name *string* ipv6-address *string*
Tree	ipv6-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

network-instance *reference*

Description	Reference to a configured network-instance to source DNS requests from
Context	system dns-instance name *string* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

oper-state *keyword*

Description	Details the operational state of the DNS client

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Context system dns-instance name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms except IMGMT

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search-list *string*

Description	An ordered list of domains to search when resolving a host name
Context	system dns-instance name *string* search-list *string*
Tree	search-list
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms except IMGMT

server-list *(ipv4-address | ipv6-address)*

Description	List of the DNS servers that the resolver should query
Context	system dns-instance name *string* server-list *(ipv4-address | ipv6-address)*
Tree	server-list
Configurable	True
Platforms	Supported on all platforms except IMGMT
Max. Elements	3

source-address *(ipv4-address | ipv6-address)*

Description	Source address for DNS to use for messages sent to a remote server
Context	system dns-instance name *string* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

dot1x

Description	Enter the dot1x context Enclosing container for system dot1x
Context	system dot1x
Tree	dot1x
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10,

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7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel

Description Enter the tunnel context

Enclosing container for system dot1x tunneling

Context system dot1x tunnel

Tree tunnel

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

Enclosing container for system dot1x tunneling statistics

Context system dot1x tunnel statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-trap-to-cpu-packets *number*

Description System or interface level incoming 802.1x frames copied to CPU

Cumulative of all Ethernet interfaces including all the copy-to-cpu 802.1x frames. 802.1x frames are identified by a destination MAC value of 01:80:c2:00:00:03 and EtherType value of 0x888e.

Context system dot1x tunnel statistics in-trap-to-cpu-packets *number*

Tree in-trap-to-cpu-packets

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

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in-tunneled-packets *number*

Description System or interface level incoming 802.1x tunneled frames

Cumulative of all Ethernet interfaces including all the tunneled 802.1x frames. 802.1x frames are identified by a destination MAC value of 01:80:c2:00:00:03 and EtherType value of 0x888e.

Context system dot1x tunnel statistics in-tunneled-packets *number*

Tree in-tunneled-packets

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description Timestamp of the last time the 802.1x counters were cleared

Context system dot1x tunnel statistics last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

event-handler

Description Top-level container for configuration and state of event handler and event handling instances

Context system event-handler

Tree event-handler

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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instance name *string*

Description List of all event handler instances

An event handler instance consists of a set of paths monitored for changes and a Python script to execute if changes occur.

Context system event-handler instance name *string*

Tree instance

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 20

name *string*

Description User-defined name for this event handler instance

Context system event-handler instance name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable this event handler instance

Context system event-handler instance name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable

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- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cron *string*

Description Cron expression describing the interval at which to run the script

This expression is in the Linux cron format of five fields separated by whitespace - '<minutes> <hours> <days-of-month> <months> <days-of-week>'.

Certain special characters can be used to assist in describing an interval: '?' can be used to specify one field and leave another unspecified, e.g. '11 11 11 11 ?' meaning to run on every November 11th at 11:11 AM. '*' can be used as a wildcard, e.g. '* * * * ?' meaning to run every minute of every hour of every day of the month of every month. '-' can be used to specify a range, e.g. '1-50' in the <minutes> field indicating to run every minute between and including 1-50. ',' can be used to provide a list of values within a field, e.g. '1,3,5'. '/' can be used to specify increments, e.g. '*/5 * * * ?' meaning every 5 minutes. 'L' can be used to specify the last day of the month. e.g. '15 10 L * ?' meaning to run at 10:15 AM on the last day of every month.

Keywords can also be used: '@yearly' resulting in '0 0 1 1 *', or run at midnight on the 1st of January. '@monthly' resulting in '0 0 1 * *' or run at midnight on the 1st of every month. '@weekly' resulting in '0 0 * * 0', or run at midnight on Sunday every week. '@daily' resulting in '0 0 * * *', or run at midnight every day. '@hourly' resulting in '0 * * * *', or run at the top of every hour. '@reboot' resulting in execution at startup.

Valid values for fields outside of the above special characters are: <minutes>: 0-59 <hours>: 0-23 <days-of-month>: 1-31, ?, L <months>: 1-12, JAN-DEC <days-of-week>: 0-6 (0 is Sunday), ?, SUN-SAT

Context system event-handler instance name *string* cron *string*

Tree cron

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-errored-execution

Description Enter the last-errored-execution context

Operational state of the last errored execution of this instance

Context system event-handler instance name *string* last-errored-execution

Tree last-errored-execution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description Time this instance last finished execution

This timestamp includes any actions provided as output from the execution

Context system event-handler instance name *string* last-errored-execution end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input *string*

Description Input provided to the script

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Context system event-handler instance name *string* last-errored-execution input *string*

Tree input

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description Reason this instance is or was in its last operational state

Context system event-handler instance name *string* last-errored-execution oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled

  Event handler instance is admin-disabled
- failed-to-compile

  Event handler failed to compile the script, indicating that the script likely has a syntax error
- exception

  Event handler caught an exception in the last execution of the script
- timeout

  Last execution of the script did not complete before a timeout occurred
- subscription-failed

  Event handler was unable to subscribe to the provided paths
- script-unavailable

  Event handler was unable to find the script on the filesystem
- script-error

  Script returned something invalid
- missing-function

  Event handler was unable to find a function named event_handler_main() in the provided script
- system-error

  Failure in setting up the python environment

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- ephemeral-action-failed

  Event handler was unable to perform an ephemeral-path action in the previous execution

- cfg-action-failed

  Event handler was unable to perform a cfg-path action in the previous execution

- tools-action-failed

  Event handler was unable to perform a tools-path action in the previous execution

- state-action-failed

  Event handler was unable to perform a state-path action in the previous execution

- script-action-failed

  Event handler was unable to perform a script action in the previous execution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason-detail *string*

Description Any additional detail event handler can provide around the last operational state of this instance

Context system event-handler instance name *string* last-errored-execution oper-down-reason-detail *string*

Tree oper-down-reason-detail

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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output *string*

Description Output received from the script

If empty, no response was received.

Context system event-handler instance name *string* last-errored-execution output *string*

Tree output

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Time this instance last started execution

Context system event-handler instance name *string* last-errored-execution start-time *string*

Tree start-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stdout-stderr *string*

Description Output printed on STDOUT or STDERR during this execution

Context system event-handler instance name *string* last-errored-execution stdout-stderr *string*

Tree stdout-stderr

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upython-duration *number*

Description Time taken for the instance to return output

Context system event-handler instance name *string* last-errored-execution upython-duration *number*

Tree upython-duration

Units microseconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-execution

Description Enter the last-execution context

Operational state of the last execution of this instance

Context system event-handler instance name *string* last-execution

Tree last-execution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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end-time *string*

Description Time this instance last finished execution

This timestamp includes any actions provided as output from the execution

Context system event-handler instance name *string* last-execution end-time *string*

Tree end-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input *string*

Description Input provided to the script

Context system event-handler instance name *string* last-execution input *string*

Tree input

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description Reason this instance is or was in its last operational state

Context system event-handler instance name *string* last-execution oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled

  Event handler instance is admin-disabled

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- failed-to-compile

  Event handler failed to compile the script, indicating that the script likely has a syntax error
- exception

  Event handler caught an exception in the last execution of the script
- timeout

  Last execution of the script did not complete before a timeout occurred
- subscription-failed

  Event handler was unable to subscribe to the provided paths
- script-unavailable

  Event handler was unable to find the script on the filesystem
- script-error

  Script returned something invalid
- missing-function

  Event handler was unable to find a function named event_handler_main() in the provided script
- system-error

  Failure in setting up the python environment
- ephemeral-action-failed

  Event handler was unable to perform an ephemeral-path action in the previous execution
- cfg-action-failed

  Event handler was unable to perform a cfg-path action in the previous execution
- tools-action-failed

  Event handler was unable to perform a tools-path action in the previous execution
- state-action-failed

  Event handler was unable to perform a state-path action in the previous execution
- script-action-failed

  Event handler was unable to perform a script action in the previous execution

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason-detail *string*

Description Any additional detail event handler can provide around the last operational state of this instance

Context system event-handler instance name *string* last-execution oper-down-reason-detail *string*

Tree oper-down-reason-detail

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

output *string*

Description Output received from the script

If empty, no response was received.

Context system event-handler instance name *string* last-execution output *string*

Tree output

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Time this instance last started execution

Context system event-handler instance name *string* last-execution start-time *string*

Tree start-time

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String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stdout-stderr *string*

Description	Output printed on STDOUT or STDERR during this execution
Context	system event-handler instance name *string* last-execution stdout-stderr *string*
Tree	stdout-stderr
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upython-duration *number*

Description	Time taken for the instance to return output
Context	system event-handler instance name *string* last-execution upython-duration *number*
Tree	upython-duration
Units	microseconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Details if this event handler instance is operationally available

Context system event-handler instance name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options

Description	Enter the options context Options to be passed on each execution of the script
Context	system event-handler instance name *string* options
Tree	options
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

object name *string*

Description	Enter the object list instance
Context	system event-handler instance name *string* options object name *string*
Tree	object
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Name of this object

Context system event-handler instance name *string* options object name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description Single value to associate with this object

Context system event-handler instance name *string* options object name *string* value *string*

Tree value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

values *string*

Description List of values to associate with this object

These are serialized as a JSON array when provided as input to the script.

Context system event-handler instance name *string* options object name *string* values *string*

Tree values

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

paths *string*

Description List of valid YANG paths in CLI notation to monitor for changes

If any events are received on any of the provided paths, the configured script will be executed.

This path may include keys, wildcards, ranges, and other management server supported constructs.

E.g. "interface * oper-state" "acl ipv4-filter foo* description"

Context system event-handler instance name *string* paths *string*

Tree paths

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Top-level container for event handler statistics

Context system event-handler instance name *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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execution-count *number*

Description	Total number of executions of this script
Context	system event-handler instance name *string* statistics execution-count *number*
Tree	execution-count
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

execution-errors *number*

Description	Total number of errors in executions of this script
Context	system event-handler instance name *string* statistics execution-errors *number*
Tree	execution-errors
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

execution-successes *number*

Description	Total number of successful executions of this script
Context	system event-handler instance name *string* statistics execution-successes *number*
Tree	execution-successes
Default	0

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

execution-timeouts *number*

Description	Total number of timeouts in executions of this script
Context	system event-handler instance name *string* statistics execution-timeouts *number*
Tree	execution-timeouts
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upython-duration *number*

Description	Total time taken for all executions of this script to return output
Context	system event-handler instance name *string* statistics upython-duration *number*
Tree	upython-duration
Units	milliseconds
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trigger-on *keyword*

Description Indicates which triggers should be used to execute the script

'all' can be used to allow both cron (if configured) and change triggers, whereas 'cron' and 'change' allow a script to be executed only on a specific trigger type.

Context system event-handler instance name *string* trigger-on *keyword*

Tree trigger-on

Default all

Options

- all
- cron
- change

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upython-script *string*

Description File name of a MicroPython script, including .py suffix

This script should already exist in /etc/opt/srlinux/eventmgr or /opt/srlinux/eventmgr directories. Explicit paths outside of these two directories are not permitted.

Context system event-handler instance name *string* upython-script *string*

Tree upython-script

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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run-as-user *reference*

Description User configured to run event handler instances

If no user is configured, scripts are executed as the 'admin' user.

Context system event-handler run-as-user *reference*

Tree run-as-user

Reference system aaa authentication user username *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

factory-reset

Description Enter the factory-reset context

Instruct this device to immediately clean all existing state and boot it in the same condition as it was shipped from factory

State includes storage, configuration, logs, certificates and licenses.

Context system factory-reset

Tree factory-reset

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reboot

Description Execute the reboot action

Issuing this action confirms the destructive operation and the reboot

Context system factory-reset reboot

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Tree	reboot
Configurable	False
Note	This is an action command
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

factory-os

Description	Roll back the OS to the same version shipped from factory
Context	system factory-reset reboot factory-os
Tree	factory-os
Configurable	False
Note	This is an action input
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

info *string*

Description	Info message returned by the factory-reset operation
Context	system factory-reset reboot info *string*
Tree	info
Configurable	False
Note	This is an action output
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

zero-fill

Description Zero-fill permanent storage where state data is stored

Context system factory-reset reboot zero-fill

Tree zero-fill

Configurable False

Note This is an action input

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

features *string*

Description Features enabled on this platform

Context system features *string*

Tree features

String Length 1 to 255

Configurable False

Platforms Supported on all platforms except IMGMT

ftp-server

Description Top-level container for FTP server configuration and state

Context system ftp-server

Tree ftp-server

Configurable True

Platforms Supported on all platforms except IMGMT

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network-instance name *reference*

Description	List of network-instances to run an FTP server in
Context	system ftp-server network-instance name *reference*
Tree	network-instance
Configurable	True
Platforms	Supported on all platforms except IMGMT

name *reference*

Description	Reference to a configured network-instance
Context	system ftp-server network-instance name *reference*
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

admin-state *keyword*

Description	Enables or disables the FTP server in this network-instance
Context	system ftp-server network-instance name *reference* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms except IMGMT

oper-state *keyword*

Description	Details the operational state of the FTP server
Context	system ftp-server network-instance name *reference* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down

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Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms except IMGMT

session-limit *number*

Description Set a limit on the number of simultaneous active FTP sessions

Context system ftp-server network-instance name *reference* session-limit *number*

Tree session-limit

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Default	20
Configurable	True
Platforms	Supported on all platforms except IMGMT

source-address *(ipv4-address | ipv6-address)*

Description	IPv4 or IPv6 address for the FTP server to listen on within the network-instance Default behavior is to listen on '::', which will listen on all addresses for both IPv4 and IPv6. In order to listen on IPv4 only, this field should be set to '0.0.0.0'.
Context	system ftp-server network-instance name *reference* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Default	::
Configurable	True
Platforms	Supported on all platforms except IMGMT

timeout *number*

Description	Set the idle timeout in seconds on FTP connections
Context	system ftp-server network-instance name *reference* timeout *number*
Tree	timeout
Default	300
Units	seconds
Configurable	True
Platforms	Supported on all platforms except IMGMT

grpc-server name *string*

Description	List of configured gRPC server instances
Context	system grpc-server name *string*
Tree	grpc-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description User-provided name of this server instance

Context system grpc-server name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Globally enable or disable the gRPC server instance

Disabling this will disable all gRPC server sockets in all network instances, and any configured unix domain sockets.

Context system grpc-server name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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auth-timeout *number*

Description Set the idle authentication timeout in seconds

Context system grpc-server name *string* auth-timeout *number*

Tree auth-timeout

Range 1 to 3600

Default 20

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

certz

Description Enter the certz context

Information relating to the active certificate and bundle/s as provided via Certz

State is provided by the gNSI Certz service, and can be changed using the gNSI.Certz.Rotate RPC

Context system grpc-server name *string* certz

Tree certz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

certificate

Description Enter the certificate context

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State relating to the active certificate provided via Certz

Context system grpc-server name *string* certz certificate

Tree certificate

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the policy

The maps to the created_on field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz certificate created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz certificate version *string*

Tree version

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crl

Description Enter the crl context

State relating to the active certificate revocation list provided via Certz

The list of certificates provided will not be used to validate mTLS or servers, even if those certificates exist within the trust anchor.

Context system grpc-server name *string* certz crl

Tree crl

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the policy

The maps to the created_on field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz crl created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz crl version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssl-profile-id *string*

Description The ID of this gRPC server's SSL profile as used by the gNSI Certz service

Context system grpc-server name *string* certz ssl-profile-id *string*

Tree ssl-profile-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trust-anchor

Description Enter the trust-anchor context

State relating to the active trust anchor provided via Certz

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This is equivalent to the certificate authority bundle, and is the list of certificates used to validate clients in mTLS, and to validate servers in outbound TLS.

Context system grpc-server name *string* certz trust-anchor

Tree trust-anchor

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the policy

The maps to the created_on field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz trust-anchor created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system grpc-server name *string* certz trust-anchor version *string*

Tree version

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client id *number*

Description	List of active gRPC client sessions
Context	system grpc-server name *string* client id *number*
Tree	client
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description	System generated ID for for the client
Context	system grpc-server name *string* client id *number*
Range	0 to 4294967295
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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acctz-starting-point *string*

Description Time of the acctz accounting subscription starting point

Context system grpc-server name *string* client id *number* acctz-starting-point *string*

Tree acctz-starting-point

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

election-id *string*

Description Election ID of this client

Provided only for services supporting an election ID

Context system grpc-server name *string* client id *number* election-id *string*

Tree election-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnmi

Description Enter the gnmi context

Container for gNMI related session info

Context system grpc-server name *string* client id *number* gnmi

Tree gnmi

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

paths id *number*

Description	List of paths being subscribed to
Context	system grpc-server name *string* client id *number* gnmi paths id *number*
Tree	paths
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description	System generated ID for the subscribed path (within subscription)
Context	system grpc-server name *string* client id *number* gnmi paths id *number*
Range	0 to 65535
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description	Subscription mode (on-change, sample, target-defined, poll, once)

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Context system grpc-server name *string* client id *number* gnmi paths id *number* mode *keyword*

Tree mode

Options
- ON_CHANGE
- SAMPLE
- TARGET_DEFINED
- POLL
- ONCE

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path *string*

Description Path being subscribed to

Context system grpc-server name *string* client id *number* gnmi paths id *number* path *string*

Tree path

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-interval *number*

Description Time in seconds to provide updates to the remote host, set to 0 for all subscription modes except SAMPLE

Context system grpc-server name *string* client id *number* gnmi paths id *number* sample-interval *number*

Tree sample-interval

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Units seconds

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gribi

Description Enter the gribi context

Container for gRIBI related session info

Context system grpc-server name *string* client id *number* gribi

Tree gribi

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

persistence-mode *keyword*

Description The defined persistence mode as signaled by the client

Context system grpc-server name *string* client id *number* gribi persistence-mode *keyword*

Tree persistence-mode

Options

- preserve

  Entries populated by the client will be persisted during a client disconnect, or control module switchover

- delete

  Entries populated by the client will be purged on the client disconnecting, or a control module switchover

  If no persistence mode is signaled, the default is to delete entries.

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

p4rt

Description	Enter the p4rt context Container for P4RT related session info
Context	system grpc-server name *string* client id *number* p4rt
Tree	p4rt
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex

Description	Enter the forwarding-complex context
Context	system grpc-server name *string* client id *number* p4rt forwarding-complex
Tree	forwarding-complex
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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device *number*

Description The P4Runtime ID of the forwarding complex for which this client has established itself

This is the value configured at /platform/linecard/forwarding-complex/p4rt/id, or a system derived default.

Context system grpc-server name *string* client id *number* p4rt forwarding-complex device *number*

Tree device

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description The normalized ID for this forwarding-complex

This is the slot number and complex number seperated by a '/', 0 indexed. For example '1/0', or '1/1' representing two forwarding complexes on slot 1.

Context system grpc-server name *string* client id *number* p4rt forwarding-complex id *string*

Tree id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description The linecard slot for which this forwarding complex resides on

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Context system grpc-server name *string* client id *number* p4rt forwarding-complex slot *number*

Tree slot

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

primary *boolean*

Description Indicates if this client is the primary for the specified forwarding complex

Only a single primary per forwarding complex is supported

Context system grpc-server name *string* client id *number* p4rt primary *boolean*

Tree primary

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-host *(ipv4-address | ipv6-address)*

Description Remote host of the client

Context system grpc-server name *string* client id *number* remote-host *(ipv4-address | ipv6-address)*

Tree remote-host

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-port *number*

Description Remote port of the client

Context system grpc-server name *string* client id *number* remote-port *number*

Tree remote-port

Range 0 to 65535

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpc *string*

Description The called package, service, and RPC

For example gnmi.gNMI.Subscribe

Context system grpc-server name *string* client id *number* rpc *string*

Tree rpc

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description Time of the subscription creation

Context system grpc-server name *string* client id *number* start-time *string*

Tree start-time

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String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Enter the type context
Context	system grpc-server name *string* client id *number* type *keyword*
Tree	type
Options	• gnmi • acctz • gribi • p4rt • gnpsi
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user *string*

Description	Authenticated username for the client
Context	system grpc-server name *string* client id *number* user *string*
Tree	user
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user-agent *string*

Description User agent used for the client

Context system grpc-server name *string* client id *number* user-agent *string*

Tree user-agent

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-tls-profile *boolean*

Description Whether to use default TLS profile (generated by the system) if none is configured via tls-profile field

Context system grpc-server name *string* default-tls-profile *boolean*

Tree default-tls-profile

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnmi

Description Enter the gnmi context

Container for gnmi configuration and state

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Context	system grpc-server name *string* gnmi
Tree	gnmi
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

commit-confirmed-timeout *number*

Description	Number of seconds to wait for confirmation A value of 0 means commit confirmed is not used
Context	system grpc-server name *string* gnmi commit-confirmed-timeout *number*
Tree	commit-confirmed-timeout
Range	0 to 86400
Default	0
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

commit-save *boolean*

Description	Specifies whether to save startup configuration after every successful commit
Context	system grpc-server name *string* gnmi commit-save *boolean*
Tree	commit-save
Default	false
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-defaults-in-config-only-responses *boolean*

Description	Specifies whether to include field default values in get/subscribe responses when using configuration only datastore (for example running/intended datastore)
Context	system grpc-server name *string* gnmi include-defaults-in-config-only-responses *boolean*
Tree	include-defaults-in-config-only-responses
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

include-key-leaf-in-create-notifications *boolean*

Description	Specifies whether to gNMI ON_CHANGE create notifications for YANG list entries include local key leafs as explicit update paths, enabling consumers to distinguish create from modify events.
Context	system grpc-server name *string* gnmi include-key-leaf-in-create-notifications *boolean*
Tree	include-key-leaf-in-create-notifications
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnoi

Description Enter the gnoi context

Operational state for gNOI services

Context system grpc-server name *string* gnoi

Tree gnoi

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

containerz

Description Enter the containerz context

Operational state for gNOI Containerz

Displays the current containers, images, volumes, and plugins managed by the container runtime.

Context system grpc-server name *string* gnoi containerz

Tree containerz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

container id *string*

Description List of containers on the system

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The key is the unique container ID from the container runtime. When a container runs on both active and standby CPMs (location all), each instance has a distinct ID.

Context system grpc-server name *string* gnoi containerz container id *string*

Tree container

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description The unique identifier of the container as reported by the container runtime

Context system grpc-server name *string* gnoi containerz container id *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash

Description Enter the hash context

The computed hash of the image as returned by the container runtime.

Context system grpc-server name *string* gnoi containerz container id *string* hash

Tree hash

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash *string*

Description The computed hash value of the image

Context system grpc-server name *string* gnoi containerz container id *string* hash hash *string*

Tree hash

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *string*

Description The method used to compute the hash

Context system grpc-server name *string* gnoi containerz container id *string* hash method *string*

Tree method

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

image-name *string*

Description The image name used by this container

Context system grpc-server name *string* gnoi containerz container id *string* image-name *string*

Tree image-name

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

labels key *string*

Description Labels associated with this container

Labels may contain dynamic information added by the containerz implementation, such as location placement metadata. Notable labels include: net.openconfig.containerz.location.intended: the requested placement (L_PRIMARY, L_BACKUP, L_ALL) net.openconfig.containerz.location.actual: where this instance is running (primary or backup) net.openconfig.containerz.location.reason: reason if placement failed on intended CPM

Context system grpc-server name *string* gnoi containerz container id *string* labels key *string*

Tree labels

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key *string*

Description The label key

Context system grpc-server name *string* gnoi containerz container id *string* labels key *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The label value

Context system grpc-server name *string* gnoi containerz container id *string* labels key *string* value *string*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the container instance

Context system grpc-server name *string* gnoi containerz container id *string* name *string*

Tree name

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The current status of the container

Context system grpc-server name *string* gnoi containerz container id *string* status *keyword*

Tree status

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Options
- UNSPECIFIED
- STOPPED
- RUNNING
- PRESENT
- NOT_FOUND

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

image name *string*

Description List of container images available on the system

Each entry represents a unique image name and tag combination. The key is in the format 'image-name:tag'.

Context system grpc-server name *string* gnoi containerz image name *string*

Tree image

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The image name and tag in 'image-name:tag' format

Context system grpc-server name *string* gnoi containerz image name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description The unique identifier (digest) of the image

Context system grpc-server name *string* gnoi containerz image name *string* id *string*

Tree id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

plugin id *string*

Description List of plugins on the system

The key is the unique plugin ID from the container runtime.

Context system grpc-server name *string* gnoi containerz plugin id *string*

Tree plugin

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description The unique identifier of the plugin as reported by the container runtime

Context system grpc-server name *string* gnoi containerz plugin id *string*

Configurable False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

config *string*

Description	The JSON configuration the plugin was started with
Context	system grpc-server name *string* gnoi containerz plugin id *string* config *string*
Tree	config
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash

Description	Enter the hash context The computed hash of the plugin as returned by the container runtime.
Context	system grpc-server name *string* gnoi containerz plugin id *string* hash
Tree	hash
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hash *string*

Description The computed hash value of the plugin

Context system grpc-server name *string* gnoi containerz plugin id *string* hash hash *string*

Tree hash

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

method *string*

Description The method used to compute the hash

Context system grpc-server name *string* gnoi containerz plugin id *string* hash method *string*

Tree method

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description The instance name of the running plugin

Context system grpc-server name *string* gnoi containerz plugin id *string* instance-name *string*

Tree instance-name

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

volume name *string*

Description List of volumes on the system

Context system grpc-server name *string* gnoi containerz volume name *string*

Tree volume

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the volume

Context system grpc-server name *string* gnoi containerz volume name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created *string*

Description The timestamp when the volume was created

Context system grpc-server name *string* gnoi containerz volume name *string* created *string*

Tree created

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String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

driver *string*

Description	The volume driver
Context	system grpc-server name *string* gnoi containerz volume name *string* driver *string*
Tree	driver
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

labels key *string*

Description	Labels associated with this volume
Context	system grpc-server name *string* gnoi containerz volume name *string* labels key *string*
Tree	labels
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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key *string*

Description The label key

Context system grpc-server name *string* gnoi containerz volume name *string* labels key *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The label value

Context system grpc-server name *string* gnoi containerz volume name *string* labels key *string* value *string*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

options key *string*

Description Driver options for this volume

The option keys and values are volume-driver specific.

Context system grpc-server name *string* gnoi containerz volume name *string* options key *string*

Tree options

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key *string*

Description The option key

Context system grpc-server name *string* gnoi containerz volume name *string* options key *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *string*

Description The option value

Context system grpc-server name *string* gnoi containerz volume name *string* options key *string* value *string*

Tree value

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

healthz

Description Enter the healthz context

gNOI Healthz tools commands

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Context	system grpc-server name *string* gnoi healthz
Tree	healthz
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis

Description	Enter the chassis context Chassis component
Context	system grpc-server name *string* gnoi healthz chassis
Tree	chassis
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description	Enter the control context Control module component
Context	system grpc-server name *string* gnoi healthz control slot *string*
Tree	control
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *string*

Description Slot identifier for the control module

Context system grpc-server name *string* gnoi healthz control slot *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fabric slot *number*

Description Enter the fabric context

Fabric module component

Context system grpc-server name *string* gnoi healthz fabric slot *number*

Tree fabric

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description Numeric identifier for the fabric module

Context system grpc-server name *string* gnoi healthz fabric slot *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fan-tray id *number*

Description Enter the fan-tray context

Fan component

Context system grpc-server name *string* gnoi healthz fan-tray id *number*

Tree fan-tray

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Numeric identifier for the fan module

Context system grpc-server name *string* gnoi healthz fan-tray id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linecard slot *number*

Description Enter the linecard context

Line card component

Clearing a slot component will not clear it's corresponding forwarding-complex components. Similarly, clearing a forwarding-complex component will not clear the slot component.

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Context	system grpc-server name *string* gnoi healthz linecard slot *number*
Tree	linecard
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description	Numeric identifier for the line card
Context	system grpc-server name *string* gnoi healthz linecard slot *number*
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

power-supply id *number*

Description	Enter the power-supply context Power supply component
Context	system grpc-server name *string* gnoi healthz power-supply id *number*
Tree	power-supply
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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id *number*

Description Numeric identifier for the power supply module

Context system grpc-server name *string* gnoi healthz power-supply id *number*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transceiver interface *string*

Description Enter the transceiver context

Transceiver component

Context system grpc-server name *string* gnoi healthz transceiver interface *string*

Tree transceiver

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Interface name for the transceiver module

Context system grpc-server name *string* gnoi healthz transceiver interface *string*

String Length 1 to 255

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-concurrent-streams *number*

Description Set a limit on the maximum number of concurrent streams allowed on a single gRPC connection

This value is signaled to the clients in a SETTINGS frame.

Context system grpc-server name *string* max-concurrent-streams *number*

Tree max-concurrent-streams

Range 0 to 2147483647

Default 65535

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

metadata-authentication *boolean*

Description Enable or disable the use of username/password metadata authentication for every gRPC request

Context system grpc-server name *string* metadata-authentication *boolean*

Tree metadata-authentication

Default true

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance *reference*

Description	Reference to a configured network instance where the gRPC will listen on for incoming connections
Context	system grpc-server name *string* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

oper-state *keyword*

Description	Details if the gRPC server is operationally available
Context	system grpc-server name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized • upgrading Component is currently being upgraded • low-power Component is offline due to insufficient system power • degraded

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Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pathz

Description Enter the pathz context

Information relating to the active Pathz authorization policy instances

This policies is provided by the gNSI gRPC service, and can be changed using the gNSI.Pathz.Rotate RPC

Context system grpc-server name *string* pathz

Tree pathz

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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counters

Description Enter the counters context

A collection of per-schema path counters collected by the gNSI.pathz module.

Context system grpc-server name *string* pathz counters

Tree counters

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path name *string*

Description A collection of counters collected by the gNSI.pathz module for a schema path identified by the `name`.

Context system grpc-server name *string* pathz counters path name *string*

Tree path

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description A schema path the counters were collected for.

Uses xpath format.

Context system grpc-server name *string* pathz counters path name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reads

Description Enter the reads context

The counter were collected while performing a read operation on the schema path.

Context system grpc-server name *string* pathz counters path name *string* reads

Tree reads

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description The total number of times the gNSI.pathz module allowed access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* reads access-accepts *number*

Tree access-accepts

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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access-rejects *number*

Description The total number of times the gNSI.pathz module denied access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* reads access-rejects *number*

Tree access-rejects

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-accept *string*

Description A timestamp of the last time the gNSI.pathz allowed access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* reads last-access-accept *string*

Tree last-access-accept

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description A timestamp of the last time the gNSI.pathz denied access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* reads last-access-reject *string*

Tree last-access-reject

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String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

writes

Description	Enter the writes context The counter were collected while performing a write operation on the schema path.
Context	system grpc-server name *string* pathz counters path name *string* writes
Tree	writes
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description	The total number of times the gNSI.pathz module allowed access to a schema path.
Context	system grpc-server name *string* pathz counters path name *string* writes access-accepts *number*
Tree	access-accepts
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-rejects *number*

Description The total number of times the gNSI.pathz module denied access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* writes access-rejects *number*

Tree access-rejects

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-accept *string*

Description A timestamp of the last time the gNSI.pathz allowed access to a schema path.

Context system grpc-server name *string* pathz counters path name *string* writes last-access-accept *string*

Tree last-access-accept

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description A timestamp of the last time the gNSI.pathz denied access to a schema path.

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Context	system grpc-server name *string* pathz counters path name *string* writes last-access-reject *string*
Tree	last-access-reject
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description	The timestamp of the moment when the Pathz policy was created (sent by the gNSI client).
Context	system grpc-server name *string* pathz created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy *string*

Description	The policy definition This JSON string contains the full gRPC authorization policy conforming to the gRPC Path-based authorization policy schema. This maps to the policy field within a UploadRequest message in the Pathz protobuf.
Context	system grpc-server name *string* pathz policy *string*
Tree	policy
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version of the Pathz authorization policy (sent by the gNSI client).
Context	system grpc-server name *string* pathz version *string*
Tree	version
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *number*

Description	Port the gRPC server will listen on for incoming connections
Context	system grpc-server name *string* port *number*
Tree	port
Range	0 to 65535
Default	57400
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rate-limit *number*

Description Set a limit on the number of RPC calls per minute

Context system grpc-server name *string* rate-limit *number*

Tree rate-limit

Range 0 to 65535

Default 60

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

services *identityref*

Description The gRPC service definitions that should be enabled for this gRPC server instance

Context system grpc-server name *string* services *identityref*

Tree services

Options

- gnmi

  gNMI: gRPC Network Management Interface
- gnoi

  gNOI: gRPC Network Operations Interface
- gnoi.bgp

  gNOI: BGP Service
- gnoi.bootconfig

  gNOI: BootConfig Service
- gnoi.containerz

  gNOI: containerz Service
- gnoi.factory_reset

  gNOI: FactoryReset Service
- gnoi.file

  gNOI: File Service
- gnoi.healthz

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gNOI: Healthz Service

- gnoi.os
  gNOI: OS Service
- gnoi.packet_link_qualification
  gNOI: PacketLinkQualification Service
- gnoi.system
  gNOI: System Service
- gnoi.yang_action
  gNOI: YANG Action Service
- gnpsi
  gNPSI: gRPC Network Packet Sampling Interface
- gnsi
  gNSI: gRPC Network Security Interface
- gnsi.acctz
  gNSI: Accounting Service
- gnsi.attestz
  gNSI: Attestz Service
- gnsi.authz
  gNSI: Authorization Policy Management Service
- gnsi.certz
  gNSI: Certificate Management Service
- gnsi.credentialz
  gNSI: Credentials Management Service
- gnsi.enrollz
  gNSI: Enrollz Service
- gnsi.pathz
  gNSI: Path-based Authorization Policy Management Service
- gribi
  gRIBI: gRPC Routing Information Base Interface
- p4rt
  P4RT: P4 Runtime
- ndk
  NDK: NetOps Development Kit server

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-limit *number*

Description Set a limit on the number of simultaneous active gRPC sessions

A session is defined as an individual RPC invocation, which could result in a single client generating multiple sessions. In the context of a Subscribe RPC this is the number of simultaneously active SubscribeRequests across all Subscribe RPCs.

Context system grpc-server name *string* session-limit *number*

Tree session-limit

Range 0 to 65535

Default 20

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description List of IP addresses the gRPC server will listen on within the network instance

Context system grpc-server name *string* source-address *(ipv4-address | ipv6-address)*

Tree source-address

Default ::

Configurable True

Platforms Supported on all platforms except IMGMT

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statistics

Description Enter the statistics context

Statistics related to the gRPC server

Context system grpc-server name *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description The total number of times the gPRC allowed access to the server

Context system grpc-server name *string* statistics access-accepts *number*

Tree access-accepts

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-rejects *number*

Description The total number of times the gRPC server denied access to the server

Context system grpc-server name *string* statistics access-rejects *number*

Tree access-rejects

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Execute the clear action

Clear gNMI network instance authentication counters

Context system grpc-server name *string* statistics clear

Tree clear

Configurable False

Note This is an action command

Platforms Supported on all platforms

last-access-accept *string*

Description A timestamp of the last time the gRPC allowed access to the server

Context system grpc-server name *string* statistics last-access-accept *string*

Tree last-access-accept

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description A timestamp of the last time the gRPC server denied access to the server

Context system grpc-server name *string* statistics last-access-reject *string*

Tree last-access-reject

String Length 20 to 32

Configurable False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpc name *string*

Description A collection of counters collected by the gNSI.authz module for a RPC identified by the `name`.

Context system grpc-server name *string* statistics rpc name *string*

Tree rpc

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the RPC the counters were collected for.

Context system grpc-server name *string* statistics rpc name *string*

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description The total number of times the gNSI.authz module allowed access to a RPC.

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Context	system grpc-server name *string* statistics rpc name *string* access-accepts *number*
Tree	access-accepts
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-rejects *number*

Description	The total number of times the gNSI.authz module denied access to a RPC.
Context	system grpc-server name *string* statistics rpc name *string* access-rejects *number*
Tree	access-rejects
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-accept *string*

Description	A timestamp of the last time the gNSI.authz allowed access to a RPC.
Context	system grpc-server name *string* statistics rpc name *string* last-access-accept *string*
Tree	last-access-accept
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description A timestamp of the last time the gNSI.authz denied access to a RPC.

Context system grpc-server name *string* statistics rpc name *string* last-access-reject *string*

Tree last-access-reject

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description Set the idle timeout in seconds on gRPC connections

Context system grpc-server name *string* timeout *number*

Tree timeout

Range 0 to 65535

Default 7200

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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tls-profile *reference*

Description Reference to the TLS profile to use on the gRPC server

If none is specified, then TLS is not used.

Context system grpc-server name *string* tls-profile *reference*

Tree tls-profile

Reference system tls profile name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options *keyword*

Description gRPC trace options

Context system grpc-server name *string* trace-options *keyword*

Tree trace-options

Options

- request
- response
- stream
- common
- grpc

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unix-socket

Description Enter the unix-socket context

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Top-level container for configuration and state related to unix sockets

Context system grpc-server name *string* unix-socket

Tree unix-socket

Configurable True

Platforms Supported on all platforms except IMGMT

admin-state *keyword*

Description Administratively enable or disable the gRPC server

Context system grpc-server name *string* unix-socket admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms except IMGMT

socket-filename *string*

Description The last part of the socket-path of the unix socket used by the gRPC server

The unix socket is always created in /opt/srlinux/var/run directory. If not specified, the value of sr_grpc_server_<server instance name> is used as the socket-filename.

Context system grpc-server name *string* unix-socket socket-filename *string*

Tree socket-filename

String Length 1 to 247

Configurable True

Platforms Supported on all platforms except IMGMT

socket-path *string*

Description Path to the unix socket used by gRPC

Context system grpc-server name *string* unix-socket socket-path *string*

Tree socket-path

Configurable False

Platforms Supported on all platforms except IMGMT

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yang-models *keyword*

Description Specify yang-models to be used when origin field is not present in requests

Context system grpc-server name *string* yang-models *keyword*

Tree yang-models

Default native

Options
- native
- openconfig

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grpc-tunnel

Description Configures the gRPC tunnel instances

Context system grpc-tunnel

Tree grpc-tunnel

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination name *string*

Description list of gRPC tunnel destinations, i.e gRPC tunnel servers.

Context system grpc-tunnel destination name *string*

Tree destination

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

name *string*

Description	Destination name.
Context	system grpc-tunnel destination name *string*
String Length	1 to 247
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	Destination address.
Context	system grpc-tunnel destination name *string* address *(ipv4-address | ipv6-address)*
Tree	address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description	Destination description.
Context	system grpc-tunnel destination name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Reference to a configured network-instance used to establish the gRPC tunnel from. This network-instance must already exist in the system.
Context	system grpc-tunnel destination name *string* network-instance *reference*
Tree	network-instance
Default	mgmt
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *number*

Description	destination port number
Context	system grpc-tunnel destination name *string* port *number*
Tree	port
Range	0 to 65535

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tls-profile *reference*

Description	Reference to a TLS profile to use when initiating connections to this destination. This TLS profile must already exist
Context	system grpc-tunnel destination name *string* tls-profile *reference*
Tree	tls-profile
Reference	system tls profile name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel name *string*

Description	gRPC tunnel represent the set of tunnels serving a set of targets (ID, Type) towards one or multiple destinations.
Context	system grpc-tunnel tunnel name *string*
Tree	tunnel
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

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name *string*

Description Tunnel name

Context system grpc-tunnel tunnel name *string*

String Length 1 to 247

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administrative state of the gRPC tunnel.

Context system grpc-tunnel tunnel name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description tunnel description

Context system grpc-tunnel tunnel name *string* description *string*

Tree description

String Length 1 to 255

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination name *reference*

Description	Reference to a created destination.
Context	system grpc-tunnel tunnel name *string* destination name *reference*
Tree	destination
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

name *reference*

Description	Enter the name context
Context	system grpc-tunnel tunnel name *string* destination name *reference*
Reference	system grpc-tunnel destination name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Administrative state of the gRPC tunnel destination.

Context system grpc-tunnel tunnel name *string* destination name *reference* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the destination

Context system grpc-tunnel tunnel name *string* destination name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

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Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state-down-reason *string*

Description Reason the oper-state is DOWN

Context system grpc-tunnel tunnel name *string* destination name *reference* oper-state-down-reason *string*

Tree oper-state-down-reason

Default

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reconnect-at *string*

Description Date and time of next reconnect attempt. Valid only when admin-state is enabled and oper-state is down.

Context system grpc-tunnel tunnel name *string* destination name *reference* reconnect-at *string*

Tree reconnect-at

String Length 20 to 32

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target name *string*

Description Enter the target list instance

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string*

Tree target

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Enter the name context

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string*

String Length 1 to 247

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description gRPC tunnel target ID

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string* id *string*

Tree id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the target

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational

- down

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Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state-down-reason *string*

Description Reason the oper-state is down

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string* oper-state-down-reason *string*

Tree oper-state-down-reason

Default

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *string*

Description gRPC tunnel target type

Context system grpc-tunnel tunnel name *string* destination name *reference* target name *string* type *string*

Tree type

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Operational state of the gRPC tunnel.

Context system grpc-tunnel tunnel name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state-down-reason *string*

Description	Reason the oper-state is DOWN.
Context	system grpc-tunnel tunnel name *string* oper-state-down-reason *string*
Tree	oper-state-down-reason
Default	
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target name *string*

Description	Enter the target list instance
Context	system grpc-tunnel tunnel name *string* target name *string*
Tree	target
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

name *string*

Description	Target local name.
Context	system grpc-tunnel tunnel name *string* target name *string*
String Length	1 to 247
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id

Description Enter the id context

Target ID.

Context system grpc-tunnel tunnel name *string* target name *string* id

Tree id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom

Description Enter the custom context

User-defined pattern composed of ordered tokens separated by a delimiter.

Context system grpc-tunnel tunnel name *string* target name *string* id custom

Tree custom

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom *string*

Description A custom string chosen by the user.

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Context system grpc-tunnel tunnel name *string* target name *string* id custom custom *string*

Tree custom

String Length 1 to 256

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delimiter *string*

Description A delimiter string to be inserted between the pattern tokens.

Context system grpc-tunnel tunnel name *string* target name *string* id custom delimiter *string*

Tree delimiter

String Length 1 to 64

Default |

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pattern *keyword*

Description Ordered list of pattern elements chosen by the user.

Context system grpc-tunnel tunnel name *string* target name *string* id custom pattern *keyword*

Tree pattern

Options

- hostname
- vendor
- model

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- version
- literal

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

mac-address

Description Enter the mac-address context

Context system grpc-tunnel tunnel name *string* target name *string* id mac-address

Tree mac-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

node-name

Description Enter the node-name context

Context system grpc-tunnel tunnel name *string* target name *string* id node-name

Tree node-name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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user-agent

Description Enter the user-agent context

Context system grpc-tunnel tunnel name *string* target name *string* id user-agent

Tree user-agent

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type

Description Enter the type context

Target type.

Context system grpc-tunnel tunnel name *string* target name *string* type

Tree type

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

custom

Description Enter the custom context

Context system grpc-tunnel tunnel name *string* target name *string* type custom

Tree custom

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-address *string*

Description The local address to dial for an established tunnel towards this target.

Context system grpc-tunnel tunnel name *string* target name *string* type custom local-address *string*

Tree local-address

String Length 1 to 256

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description Enter the network-instance context

Context system grpc-tunnel tunnel name *string* target name *string* type custom network-instance *reference*

Tree network-instance

Reference network-instance name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *string*

Description Enter the type context

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Context	system grpc-tunnel tunnel name *string* target name *string* type custom type *string*
Tree	type
String Length	1 to 256
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnmi-gnoi-server *reference*

Description	Enter the gnmi-gnoi-server context
Context	system grpc-tunnel tunnel name *string* target name *string* type gnmi-gnoi-server *reference*
Tree	gnmi-gnoi-server
Reference	system grpc-server name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gribi-server *reference*

Description	Enter the gribi-server context
Context	system grpc-tunnel tunnel name *string* target name *string* type gribi-server *reference*
Tree	gribi-server
Reference	system grpc-server name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

netconf-server *reference*

Description Enter the netconf-server context

Context system grpc-tunnel tunnel name *string* target name *string* type netconf-server *reference*

Tree netconf-server

Reference system netconf-server name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

p4-runtime-server *reference*

Description Enter the p4-runtime-server context

Context system grpc-tunnel tunnel name *string* target name *string* type p4-runtime-server *reference*

Tree p4-runtime-server

Reference system grpc-server name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ssh-server *reference*

Description	Enter the ssh-server context
Context	system grpc-tunnel tunnel name *string* target name *string* type ssh-server *reference*
Tree	ssh-server
Reference	system ssh-server name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

information

Description	Enter the information context Top-level container for system information configuration and state
Context	system information
Tree	information
Configurable	True
Platforms	Supported on all platforms

contact *string*

Description	The system contact This field represents contact information for the person or group that maintains the system. This field is exposed via SNMP at the sysContact OID.
Context	system information contact *string*
Tree	contact
Configurable	True
Platforms	Supported on all platforms

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coordinates

Description Enter the coordinates context

Contains configuration and state related to system coordinates

Context system information coordinates

Tree coordinates

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

height *number*

Description Height in meters

Context system information coordinates height *number*

Tree height

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

latitude *decimal-number*

Description Decimal latitude between -90 and 90 to a maximum of 6 decimal places

Context system information coordinates latitude *decimal-number*

Tree latitude

Range -90 to 90

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

longitude *decimal-number*

Description	Decimal longitude between -180 and 180 to a maximum of 6 decimal places
Context	system information coordinates longitude *decimal-number*
Tree	longitude
Range	-180 to 180
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-datetime *string*

Description	The current system date and time
Context	system information current-datetime *string*
Tree	current-datetime
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

description *string*

Description	The system description This field is system generated, and is a combination of the system host name, software version, kernel version, and build date. The template for this field is: SRLinux-<version> <hostname> <kernel> <build date>. This field is exposed via SNMP at the sysDescr OID.
Context	system information description *string*

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Tree	description
Configurable	False
Platforms	Supported on all platforms

last-booted *string*

Description	The date and time the system was last booted
Context	system information last-booted *string*
Tree	last-booted
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

location *string*

Description	The system location This field represents the location of the system, and is commonly used by inventory management systems to group elements together. This field is exposed via SNMP at the sysLocation OID.
Context	system information location *string*
Tree	location
Configurable	True
Platforms	Supported on all platforms

up-time *string*

Description	The date and time the chassis was last booted
Context	system information up-time *string*
Tree	up-time
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

up-time-counter *number*

Description	The date and time the chassis was last booted in nanoseconds

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Context	system information up-time-counter *number*
Tree	up-time-counter
Configurable	False
Platforms	Supported on all platforms

version *string*

Description	The system version This field represents the version of the management server
Context	system information version *string*
Tree	version
Configurable	False
Platforms	Supported on all platforms

ipfix

Description	Top-level node of the IPFIX configuration data model.
Context	system ipfix
Tree	ipfix
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enable or disable IPFIX for the system
Context	system ipfix admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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cache name *string*

Description	Cache of the Monitoring Device.
Context	system ipfix cache name *string*
Tree	cache
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Key of this list.
Context	system ipfix cache name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-records *number*

Description	The number of Data Records generated by this Cache. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of cache DiscontinuityTime.
Context	system ipfix cache name *string* data-records *number*
Tree	data-records
Default	0
Units	Data Records
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exporting-process *reference*

Description	Records are exported by all Exporting Processes in the list.
Context	system ipfix cache name *string* exporting-process *reference*
Tree	exporting-process

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Reference	system ipfix exporting-process name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout-cache

Description	Enter the timeout-cache context Flow expiration after active and idle timeout; generation of Flow Records.
Context	system ipfix cache name *string* timeout-cache
Tree	timeout-cache
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-flows *number*

Description	The number of Flows currently active in this Cache. Note that this parameter corresponds to ipfixMeteringProcessCacheActive Flows in the IPFIX MIB module.
Context	system ipfix cache name *string* timeout-cache active-flows *number*
Tree	active-flows
Units	flows
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-timeout *number*

Description	This parameters specified the active timeout for active flows within the cache This parameter configures the time in seconds after which a Flow is expired even though packets matching this Flow are still received by the Cache.
Context	system ipfix cache name *string* timeout-cache active-timeout *number*
Tree	active-timeout
Range	30 to 36000
Default	1800
Units	seconds

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Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

idle-timeout *number*

Description	This parameters specified the idle timeout for inactive flows within the cache. This parameter configures the time in seconds after which a Flow is expired if no more packets matching this Flow are received by the Cache.
Context	system ipfix cache name *string* timeout-cache idle-timeout *number*
Tree	idle-timeout
Range	10 to 600
Default	15
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-flows *number*

Description	This parameter configures the maximum number of flows in the Cache This values is the maximum number of Flows that can be monitored simultaneously. The Monitoring Device MUST ensure that sufficient resources are available to store the configured maximum number of Flows. If the maximum number of Flows is measured, an additional Flow can be measured only if an existing entry is removed and exported to available collectors.
Context	system ipfix cache name *string* timeout-cache maximum-flows *number*
Tree	maximum-flows
Range	1000 to 500000
Default	250000
Units	flows
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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overflow-flush *number*

Description	Set the percentage of the cache that is flushed when an overflow event occurs
Context	system ipfix cache name *string* timeout-cache overflow-flush *number*
Tree	overflow-flush
Default	1
Units	percentage
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

unused-cache-entries *number*

Description	The number of unused Cache entries in this Cache. Note that this parameter corresponds to ipfixMeteringProcessCacheUnusedCacheEntries in the IPFIX MIB module.
Context	system ipfix cache name *string* timeout-cache unused-cache-entries *number*
Tree	unused-cache-entries
Units	flows
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exporting-process name *string*

Description	Exporting Process of the Monitoring Device.
Context	system ipfix exporting-process name *string*
Tree	exporting-process
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Key of this list.
Context	system ipfix exporting-process name *string*

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String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination name *string*

Description	List of export destinations.
Context	system ipfix exporting-process name *string* destination name *string*
Tree	destination
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8
Min. Elements	1

name *string*

Description	Key of this list.
Context	system ipfix exporting-process name *string* destination name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

udp-exporter

Description	Enter the udp-exporter context UDP parameters.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter
Tree	udp-exporter
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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destination-ip-address *(ipv4-address | ipv6-address)*

Description	IP address of the Collection Process to which IPFIX Messages are sent.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter destination-ip-address *(ipv4-address | ipv6-address)*
Tree	destination-ip-address
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *number*

Description	If not configured by the user, the Monitoring Device uses the default port number for IPFIX, which is 4739 without TLS or DTLS and 4740 if TLS or DTLS is activated.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter destination-port *number*
Tree	destination-port
Range	1 to 65535
Default	4739
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipfix-version *number*

Description	IPFIX version number.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter ipfix-version *number*
Tree	ipfix-version
Range	9 to 10
Default	10
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance *reference*

Description	Reference to a configured network-instance
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

options-template-refresh-timeout *number*

Description	Sets time after which Options Templates are resent in the UDP Transport Session. Note that the configured lifetime MUST be adapted to the options TemplateLifeTime parameter value at the receiving Collecting Process. Note that this parameter corresponds to ipfixTransportSessionOptionsTemplate RefreshTimeout in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter options-template-refresh-timeout *number*
Tree	options-template-refresh-timeout
Default	600
Units	seconds
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip-address *(ipv4-address | ipv6-address)*

Description	Source IP address used by the Exporting Process. If not configured, the IP address assigned to the outgoing interface is used as source IP address.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter source-ip-address *(ipv4-address | ipv6-address)*
Tree	source-ip-address
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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template-refresh-timeout *number*

Description	Sets time after which Templates are resent in the UDP Transport Session. Note that the configured lifetime MUST be adapted to the templateLifeTime parameter value at the receiving Collecting Process.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter template-refresh-timeout *number*
Tree	template-refresh-timeout
Range	10 to 600
Default	600
Units	seconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport-session

Description	Enter the transport-session context State parameters of the Transport Session directed to the given destination.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session
Tree	transport-session
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

bytes *number*

Description	The number of bytes transmitted by the Exporting Process or received by the Collecting Process Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime. Note that this parameter corresponds to ipfixTransportSessionBytes in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session bytes *number*
Tree	bytes
Default	0

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Units	bytes
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-address *(ipv4-address | ipv6-address)*

Description	The destination address of the Collector of the IPFIX Transport Session
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session destination-address *(ipv4-address | ipv6-address)*
Tree	destination-address
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-port *number*

Description	The transport-protocol port number of the Collector of the IPFIX Transport Session
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session destination-port *number*
Tree	destination-port
Range	0 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

discarded-messages *number*

Description	The number of messages that could not be sent to a collector Used for Exporting Processes, this parameter indicates the number of messages that could not be sent due to internal buffer overflows, network congestion, routing issues, etc. Used for Collecting Process, this parameter indicates the number of received IPFIX Message that are malformed, cannot be decoded, are received in the wrong order or are missing according to the sequence number. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session discarded-messages *number*

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Tree	discarded-messages
Default	0
Units	IPFIX Messages
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipfix-version *number*

Description	This parameters contains the version of the IPFIX protocol Used for Exporting Processes, this parameter contains the version number of the IPFIX protocol that the Exporter uses to export its data in this Transport Session
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session ipfix-version *number*
Tree	ipfix-version
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

messages *number*

Description	The number of messages transmitted by the Exporting Process or received by the Collecting Process Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime. Note that this parameter corresponds to ipfixTransportSessionMessages in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session messages *number*
Tree	messages
Default	0
Units	IPFIX Messages
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description

Status of the Transport Session

Note that this parameter corresponds to ipfixTransportSessionStatus in the IPFIX MIB module.

Context

system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session oper-state *keyword*

Tree

oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

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This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

options-templates *number*

Description The number of Option Templates transmitted by the Exporting Process or received by the Collecting Process. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime.

Context system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session options-templates *number*

Tree options-templates

Default 0

Units Options Templates

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

rate *number*

Description The number of bytes per second transmitted by the Exporting Process or received by the Collecting Process

This parameter is updated every second. Note that this parameter corresponds to ipfixTransportSessionRate in the IPFIX MIB module.

Context system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session rate *number*

Tree rate

Units bytes per second

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

records *number*

Description The number of Data Records transmitted by the Exporting Process

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Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime.

Context system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session records *number*

Tree records

Default 0

Units Data Records

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description The source address of the Exporter of the IPFIX Transport Session

Context system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session source-address *(ipv4-address | ipv6-address)*

Tree source-address

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-port *number*

Description The transport-protocol port number of the Exporter of the IPFIX Transport Session

Context system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session source-port *number*

Tree source-port

Range 0 to 65535

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

template

Description This list contains the Templates and Options Templates that are transmitted by the Exporting Process or received by the Collecting Process. Withdrawn or invalidated (Options) Templates MUST be removed from this list.

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Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template
Tree	template
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-time *string*

Description	Used for Exporting Processes, this parameter contains the time when this (Options) Template was last sent to the Collector(s) or written to the file. Used for Collecting Processes, this parameter contains the time when this (Options) Template was last received from the Exporter.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template access-time *string*
Tree	access-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

field

Description	This list contains the (Options) Template fields of which the (Options) Template is defined. The order of the list corresponds to the order of the fields in the (Option) Template Record.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field
Tree	field
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

element-id *number*

Description	This parameter indicates the Information Element identifier of the field. Note that this parameter corresponds to ipfixTemplateDefinitionIeId in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field element-id *number*

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Tree	element-id
Range	1 to 32767
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

element-length *number*

Description	This parameter indicates the length of the Information Element of the field. Note that this parameter corresponds to ipfixTemplateDefinitionIeLength in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field element-length *number*
Tree	element-length
Units	octets
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ie-enterprise-number *number*

Description	This parameter indicates the IANA enterprise number of the authority defining the Information Element identifier. If the Information Element is not enterprise-specific, this state parameter is zero. Note that this parameter corresponds to ipfixTemplateDefinitionIeEnterpriseNumber in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field ie-enterprise-number *number*
Tree	ie-enterprise-number
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-flowKey

Description	If present, this is a Flow Key field. Note that this corresponds to flowKey(1) being set in ipfixTemplateDefinition Flags.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field is-flowKey

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Tree	is-flowKey
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

is-scope

Description	If present, this is a scope field. Note that this corresponds to scope(0) being set in ipfixTemplateDefinition Flags.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template field is-scope
Tree	is-scope
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

observation-domain-id *number*

Description	The ID of the Observation Domain for which this Template is defined.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template observation-domain-id *number*
Tree	observation-domain-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-id *number*

Description	This number indicates the Set ID of the Template. Currently, there are two values defined. The value 2 is used for Sets containing Template definitions. The value 3 is used for Sets containing Options Template definitions.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template set-id *number*
Tree	set-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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template-data-records *number*

Description	The number of transmitted or received Data Records defined by this (Options) Template. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of templateDiscontinuityTime.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template template-data-records *number*
Tree	template-data-records
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

template-discontinuity-time *string*

Description	Timestamp of the most recent occasion at which the counter template DataRecords suffered a discontinuity. Note that this parameter functionally corresponds to ipfixTemplateDiscontinuityTime in the IPFIX MIB module. In contrast to ipfixTemplateDiscontinuityTime, the time is absolute and not relative to sysUpTime.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template template-discontinuity-time *string*
Tree	template-discontinuity-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

template-id *number*

Description	This number indicates the Template ID in the IPFIX message.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session template template-id *number*
Tree	template-id
Range	256 to 65535
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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templates *number*

Description	The number of Templates transmitted by the Exporting Process or received by the Collecting Process. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of transportSessionDiscontinuityTime.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session templates *number*
Tree	templates
Default	0
Units	Templates
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport-session-discontinuity-time *string*

Description	Timestamp of the most recent occasion at which one or more of the Transport Session counters suffered a discontinuity.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session transport-session-discontinuity-time *string*
Tree	transport-session-discontinuity-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport-session-start-time *string*

Description	Timestamp of the start of the given Transport Session. This state parameter does not correspond to any object in the IPFIX MIB module.
Context	system ipfix exporting-process name *string* destination name *string* udp-exporter transport-session transport-session-start-time *string*
Tree	transport-session-start-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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export-mode *identityref*

Description	This parameter determines to which configured destination(s) the incoming Data Records are exported.
Context	system ipfix exporting-process name *string* export-mode *identityref*
Tree	export-mode
Default	parallel
Options	• parallel Parallel export of Data Records to all destinations configured for the Exporting Process.
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

exporting-process-id *number*

Description	The identifier of the Exporting Process. This parameter corresponds to the Information Element exportingProcessId. Its occurrence helps to associate Exporting Process parameters with Exporing Process statistics exported by the Monitoring Device using the Exporting Process Reliability Statistics Template as defined by the IPFIX protocol specification.
Context	system ipfix exporting-process name *string* exporting-process-id *number*
Tree	exporting-process-id
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

options name *string*

Description	List of options reported by the Exporting Process.
Context	system ipfix exporting-process name *string* options name *string*
Tree	options
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description	Key of this list.
Context	system ipfix exporting-process name *string* options name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

options-timeout *number*

Description	Time interval for periodic export of the options data. If set to zero, the export is triggered when the options data has changed. If not configured by the user, this parameter is set by the Monitoring Device.
Context	system ipfix exporting-process name *string* options name *string* options-timeout *number*
Tree	options-timeout
Units	milliseconds
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-cache

Description	Enter the flow-cache context Operational actions for the system IPFIX metering flow cache.
Context	system ipfix flow-cache
Tree	flow-cache
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Execute the clear action Clear the IPFIX cache, which deletes all active flows. This is useful for testing and debugging, but should be used with caution in production environments.

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Context	system ipfix flow-cache clear
Tree	clear
Configurable	False
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

dump-flows

Description	Execute the dump-flows action Dump the top flows seen in the IPFIX metering cache. The mandatory flow-type input selects which flow family to display.
Context	system ipfix flow-cache dump-flows
Tree	dump-flows
Configurable	False
Note	This is an action command
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

flow-dump *string*

Description	Textual dump of top flows in the cache.
Context	system ipfix flow-cache dump-flows flow-dump *string*
Tree	flow-dump
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Display the top IPv4 unicast flows.
Context	system ipfix flow-cache dump-flows ipv4
Tree	ipv4
Configurable	False
Note	This is an action input

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Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-multicast

Description	Display the top IPv4 multicast flows.
Context	system ipfix flow-cache dump-flows ipv4-multicast
Tree	ipv4-multicast
Configurable	False
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Display the top IPv6 unicast flows.
Context	system ipfix flow-cache dump-flows ipv6
Tree	ipv6
Configurable	False
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-multicast

Description	Display the top IPv6 multicast flows.
Context	system ipfix flow-cache dump-flows ipv6-multicast
Tree	ipv6-multicast
Configurable	False
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description	Display the top MPLS flows.
Context	system ipfix flow-cache dump-flows mpls

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Tree	mpls
Configurable	False
Note	This is an action input
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	system ipfix flow-cache dump-flows srl-unstructured-output
Tree	srl-unstructured-output
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

line *string*

Description	Line of unstructured output.
Context	system ipfix flow-cache dump-flows srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

observation-point name *string*

Description	Observation Point of the Monitoring Device.
Context	system ipfix observation-point name *string*
Tree	observation-point
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

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name *string*

Description	Key of this list.
Context	system ipfix observation-point name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description	List of interfaces associated with the observation-point
Context	system ipfix observation-point name *string* interface name *string*
Tree	interface
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Subinterface to associate with Observation-point and perform sampling
Context	system ipfix observation-point name *string* interface name *string*
String Length	5 to 27
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description	The direction of traffic to be sampled
Context	system ipfix observation-point name *string* interface name *string* direction *keyword*
Tree	direction
Default	input
Options	• input This value is used for monitoring incoming packets. • output

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This value is used for monitoring outgoing packets.

- both

  This value is used for monitoring incoming and outgoing packets.

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

ifindex *number*

Description System-wide persistent unique ifIndex assigned to the subinterface

Context system ipfix observation-point name *string* interface name *string* ifindex *number*

Tree ifindex

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

observation-domain-id *number*

Description The Observation Domain ID associates the Observation Point to an Observation Domain.

Observation Points with identical Observation Domain IDs belong to the same Observation Domain. Note that this parameter corresponds to ipfix ObservationPointObservationDomainId in the IPFIX MIB module.

Context system ipfix observation-point name *string* observation-domain-id *number*

Tree observation-domain-id

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-process *reference*

Description Selection Processes in this list process packets in parallel.

Context system ipfix observation-point name *string* selection-process *reference*

Tree selection-process

Reference system ipfix selection-process name *string*

Configurable True

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Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

oper-state *keyword*

Description Details if IPFIX is operationally available

Context system ipfix oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

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Component or process is currently waiting

This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

selection-process name *string*

Description Selection Process of the Monitoring Device.

Context system ipfix selection-process name *string*

Tree selection-process

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Key of this list.

Context system ipfix selection-process name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

cache *reference*

Description Cache that receives the output of the Selection Process.

Context system ipfix selection-process name *string* cache *reference*

Tree cache

Reference system ipfix cache name *string*

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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selector name *string*

Description	List of Selectors that define the action of the Selection Process on a single packet. The Selectors are serially invoked in the same order as they appear in this list.
Context	system ipfix selection-process name *string* selector name *string*
Tree	selector
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP
Min. Elements	1

name *string*

Description	Key of this list.
Context	system ipfix selection-process name *string* selector name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-dropped *number*

Description	The total number of packets discarded by the Selector. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of selectorDiscontinuityTime.
Context	system ipfix selection-process name *string* selector name *string* packets-dropped *number*
Tree	packets-dropped
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

packets-observed *number*

Description	The number of packets observed at the input of the Selector.

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Context	system ipfix selection-process name *string* selector name *string* packets-observed *number*
Tree	packets-observed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-count-based

Description	Enter the sample-count-based context Systematic count-based packet Sampling.
Context	system ipfix selection-process name *string* selector name *string* sample-count-based
Tree	sample-count-based
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-interval *number*

Description	The number of packets that are consecutively sampled between gaps of length packetSpace. This parameter corresponds to the Information Element samplingPacketInterval and to psampSampCountBasedInterval in the PSAMP MIB module.
Context	system ipfix selection-process name *string* selector name *string* sample-count-based packet-interval *number*
Tree	packet-interval
Range	1
Units	packets
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-space *number*

Description	The number of unsampled packets between two Sampling intervals. This parameter corresponds to the Information Element samplingPacketSpace and to psampSampCountBasedSpace in the PSAMP MIB module.

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Context	system ipfix selection-process name *string* selector name *string* sample-count-based packet-space *number*
Tree	packet-space
Range	1 to 60000
Units	packets
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

selector-discontinuity-time *string*

Description	Timestamp of the most recent occasion at which one or more of the Selector counters suffered a discontinuity.
Context	system ipfix selection-process name *string* selector name *string* selector-discontinuity-time *string*
Tree	selector-discontinuity-time
String Length	20 to 32
Configurable	False
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

json-rpc-server

Description	Configures the JSON RPC access API
Context	system json-rpc-server
Tree	json-rpc-server
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Globally enable or disable the JSON RPC server Disabling this will disable all JSON RPC servers.
Context	system json-rpc-server admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable

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- disable

Configurable True

Platforms Supported on all platforms

commit-confirmed-timeout *number*

Description Number of seconds to wait for confirmation. A value of 0 means commit confirmed is not used

Context system json-rpc-server commit-confirmed-timeout *number*

Tree commit-confirmed-timeout

Range 0 to 86400

Default 0

Units seconds

Configurable True

Platforms Supported on all platforms

network-instance name *reference*

Description List of network instances to run the JSON RPC server in

Context system json-rpc-server network-instance name *reference*

Tree network-instance

Configurable True

Platforms Supported on all platforms

name *reference*

Description Reference to a configured network-instance

Context system json-rpc-server network-instance name *reference*

Reference network-instance name *string*

Configurable True

Platforms Supported on all platforms

http

Description Top-level container for the JSON RPC HTTP server

Context system json-rpc-server network-instance name *reference* http

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Tree	http
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable the HTTP JSON RPC server This requires the JSON RPC server to be globally enabled
Context	system json-rpc-server network-instance name *reference* http admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

auth-timeout *number*

Description	Authentication Timeout.
Context	system json-rpc-server network-instance name *reference* http auth-timeout *number*
Tree	auth-timeout
Range	1 to 3600
Default	20
Units	seconds
Configurable	True
Platforms	Supported on all platforms

oper-state *keyword*

Description	Details if the JSON RPC server is operationally available
Context	system json-rpc-server network-instance name *reference* http oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

port *number*

Description The port the HTTP JSON RPC server will listen on for incoming connections

Context system json-rpc-server network-instance name *reference* http port *number*

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Tree	port
Range	0 to 65535
Default	80
Configurable	True
Platforms	Supported on all platforms

session-limit *number*

Description	The number of concurrent requests the server will allow If a request comes in while this limit is reached, the request will block until another request is finished.
Context	system json-rpc-server network-instance name *reference* http session-limit *number*
Tree	session-limit
Range	1 to 20
Configurable	True
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	List of IP addresses the JSON RPC server will listen on within the network instance
Context	system json-rpc-server network-instance name *reference* http source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Default	::
Configurable	True
Platforms	Supported on all platforms

use-authentication *boolean*

Description	Enable or disable the use of username/password authentication for every JSON RPC request
Context	system json-rpc-server network-instance name *reference* http use-authentication *boolean*
Tree	use-authentication
Default	true
Configurable	True

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Platforms	Supported on all platforms

https

Description	Top-level container for the JSON-RPC HTTPS server
Context	system json-rpc-server network-instance name *reference* https
Tree	https
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Administratively enable or disable the HTTPS JSON RPC server This requires the JSON RPC server to be globally enabled
Context	system json-rpc-server network-instance name *reference* https admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

auth-timeout *number*

Description	Authentication Timeout.
Context	system json-rpc-server network-instance name *reference* https auth-timeout *number*
Tree	auth-timeout
Range	1 to 3600
Default	20
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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oper-state *keyword*

Description Details if the JSON RPC server is operationally available

Context system json-rpc-server network-instance name *reference* https oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

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This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable	False
Platforms	Supported on all platforms

port *number*

Description	Port the HTTPS JSON RPC server will listen on for incoming connections
Context	system json-rpc-server network-instance name *reference* https port *number*
Tree	port
Range	0 to 65535
Default	443
Configurable	True
Platforms	Supported on all platforms

session-limit *number*

Description	The number of concurrent requests the server will allow If a request comes in while this limit is reached, the request will block until another request is finished.
Context	system json-rpc-server network-instance name *reference* https session-limit *number*
Tree	session-limit
Range	1 to 20
Configurable	True
Platforms	Supported on all platforms

source-address *(ipv4-address | ipv6-address)*

Description	List of IP addresses the JSON RPC server will listen on within the network instance
Context	system json-rpc-server network-instance name *reference* https source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Default	::
Configurable	True

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Platforms	Supported on all platforms

tls-profile *reference*

Description	Reference to the TLS profile to use on the HTTPS JSON RPC server
Context	system json-rpc-server network-instance name *reference* https tls-profile *reference*
Tree	tls-profile
Reference	system tls profile name *string*
Configurable	True
Platforms	Supported on all platforms

use-authentication *boolean*

Description	Enable or disable the use of username/password authentication for every JSON RPC request
Context	system json-rpc-server network-instance name *reference* https use-authentication *boolean*
Tree	use-authentication
Default	true
Configurable	True
Platforms	Supported on all platforms

trace-options *keyword*

Description	JSON RPC trace options
Context	system json-rpc-server trace-options *keyword*
Tree	trace-options
Options	• request • response • common
Configurable	True
Platforms	Supported on all platforms

unix-socket

Description	Enter the unix-socket context

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Top-level container for configuration and state related to unix sockets

Context system json-rpc-server unix-socket

Tree unix-socket

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Administratively enable or disable the JSON RPC server via unix socket This requires the JSON RPC server to be globally enabled

Context system json-rpc-server unix-socket admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

oper-state *keyword*

Description Details if the JSON RPC server is operationally available

Context system json-rpc-server unix-socket oper-state *keyword*

Tree oper-state

Options

- up
  Component or process is operational
- down
  Component or process is not operational
- empty
  Component slot is empty
- downloading
  Component is downloading image into memory
- booting
  Component is booting downloaded image
- starting
  Component image operational, application processes starting
- failed

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Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

session-limit *number*

Description The number of concurrent requests the server will allow If a request comes in while this limit is reached, the request will block until another request is finished.

Context system json-rpc-server unix-socket session-limit *number*

Tree session-limit

Range 1 to 20

Configurable True

Platforms Supported on all platforms

socket-path *string*

Description Path to the unix socket used by JSON RPC

Context system json-rpc-server unix-socket socket-path *string*

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Tree	socket-path
Configurable	False
Platforms	Supported on all platforms

tls-profile *reference*

Description	Reference to the TLS profile to use on the JSON RPC unix socket server If none is specified, then TLS is not used.
Context	system json-rpc-server unix-socket tls-profile *reference*
Tree	tls-profile
Reference	system tls profile name *string*
Configurable	True
Platforms	Supported on all platforms

use-authentication *boolean*

Description	Enable or disable the use of username/password authentication for every JSON RPC request
Context	system json-rpc-server unix-socket use-authentication *boolean*
Tree	use-authentication
Default	true
Configurable	True
Platforms	Supported on all platforms

l2cp-transparency

Description	Enter the l2cp-transparency context Enclosing container for system level Layer-2 Control Protocol transparency.
Context	system l2cp-transparency
Tree	l2cp-transparency
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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efm-oam

Description	Enter the efm-oam context Operational commands for the Ethernet in the First Mile OAM protocol statistics
Context	system l2cp-transparency efm-oam
Tree	efm-oam
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

elmi

Description	Enter the elmi context Operational commands for the Ethernet Local Management Interface protocol statistics
Context	system l2cp-transparency elmi
Tree	elmi
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

esmc

Description	Enter the esmc context Operational commands for the Ethernet Synchronization Messaging Channel protocol statistics
Context	system l2cp-transparency esmc
Tree	esmc
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

l2cp-statistics

Description	Enter the l2cp-statistics context Container for Layer-2 Control Plane protocol statistics.

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Context	system l2cp-transparency l2cp-statistics
Tree	l2cp-statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

efm-oam

Description	Enter the efm-oam context Container for Ethernet in the First Mile OAM frames EFM-OAM frames are identified by a Ethertype value 0x8809 and slow protocol subtype 0x03.
Context	system l2cp-transparency l2cp-statistics efm-oam
Tree	efm-oam
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

in-trap-to-cpu-packets *number*

Description	System level incoming EFM-OAM frames copied to CPU Cumulative of all Ethernet interfaces including all the copy-to-cpu EFM-OAM frames.
Context	system l2cp-transparency l2cp-statistics efm-oam in-trap-to-cpu-packets *number*
Tree	in-trap-to-cpu-packets
Default	0
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

in-tunneled-packets *number*

Description	System level incoming EFM-OAM tunneled frames Cumulative of all Ethernet interfaces including all the tunneled EFM-OAM frames.
Context	system l2cp-transparency l2cp-statistics efm-oam in-tunneled-packets *number*

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Tree	in-tunneled-packets
Default	0
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

last-clear *string*

Description	Timestamp of the last time the EFM-OAM counters were cleared.
Context	system l2cp-transparency l2cp-statistics efm-oam last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

elmi

Description	Enter the elmi context Container for Ethernet local management interface frames ELMI frames are identified by MAC DA 01-80-C2-00-00-07 and Ethertype 0x88ee.
Context	system l2cp-transparency l2cp-statistics elmi
Tree	elmi
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

in-trap-to-cpu-packets *number*

Description	System level incoming ELMI frames copied to CPU Cumulative of all Ethernet interfaces including all the copy-to-cpu ELMI frames.
Context	system l2cp-transparency l2cp-statistics elmi in-trap-to-cpu-packets *number*
Tree	in-trap-to-cpu-packets
Default	0
Configurable	False

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Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

in-tunneled-packets *number*

Description	System level incoming ELMI tunneled frames Cumulative of all Ethernet interfaces including all the tunneled ELMI frames.
Context	system l2cp-transparency l2cp-statistics elmi in-tunneled-packets *number*
Tree	in-tunneled-packets
Default	0
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

last-clear *string*

Description	Timestamp of the last time the ELMI counters were cleared
Context	system l2cp-transparency l2cp-statistics elmi last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

esmc

Description	Enter the esmc context Container for Ethernet Synchronization Messaging Channel protocol ESMC frames are identified by a Ethertype 0x8809 and slow protocol subtype 0x0A.
Context	system l2cp-transparency l2cp-statistics esmc
Tree	esmc
Configurable	False
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

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in-trap-to-cpu-packets *number*

Description System level incoming ESMC frames copied to CPU

Cumulative of all Ethernet interfaces including all the copy-to-cpu ESMC frames.

Context system l2cp-transparency l2cp-statistics esmc in-trap-to-cpu-packets *number*

Tree in-trap-to-cpu-packets

Default 0

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

in-tunneled-packets *number*

Description System level incoming ESMC tunneled frames

Cumulative of all Ethernet interfaces including all the tunneled ESMC frames.

Context system l2cp-transparency l2cp-statistics esmc in-tunneled-packets *number*

Tree in-tunneled-packets

Default 0

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

last-clear *string*

Description Timestamp of the last time the ESMC counters were cleared

Context system l2cp-transparency l2cp-statistics esmc last-clear *string*

Tree last-clear

String Length 20 to 32

Configurable False

Platforms Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

lacp

Description Enter the lacp context

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Container for LACP.

Context system l2cp-transparency l2cp-statistics lacp

Tree lacp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-trap-to-cpu-packets *number*

Description System level incoming Link Aggregation Control Protocol frames copied to CPU.

Cumulative of all Ethernet interfaces including all the copy-to-cpu LACP frames. LACP frames are identified by a destination MAC value of 01:80:c2:00:00:02, EtherType value of 0x8809 and slow protocol subtype 0x1.

Context system l2cp-transparency l2cp-statistics lacp in-trap-to-cpu-packets *number*

Tree in-trap-to-cpu-packets

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-tunneled-packets *number*

Description System level incoming Link Aggregation Control Protocol tunneled frames.

Cumulative of all Ethernet interfaces including all the tunneled LACP frames. LACP frames are identified by a destination MAC value of 01:80:c2:00:00:02, EtherType value of 0x8809 and slow protocol subtype 0x1.

Context system l2cp-transparency l2cp-statistics lacp in-tunneled-packets *number*

Tree in-tunneled-packets

Default 0

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description Timestamp of the last time the LACP counters were cleared.

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Context	system l2cp-transparency l2cp-statistics lacp last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description	Timestamp of the last time the L2CP counters were cleared.
Context	system l2cp-transparency l2cp-statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

lldp

Description	Enter the lldp context Container for LLDP.
Context	system l2cp-transparency l2cp-statistics lldp
Tree	lldp
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-trap-to-cpu-packets *number*

Description	System level incoming Link Layer Discovery Protocol frames copied to CPU. Cumulative of all Ethernet interfaces including all the copy-to-cpu LLDP frames. LLDP frames are identified by a destination MAC value of 01:80:c2:00:00:0e and EtherType value of 0x88cc.
Context	system l2cp-transparency l2cp-statistics lldp in-trap-to-cpu-packets *number*
Tree	in-trap-to-cpu-packets
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-tunneled-packets *number*

Description	System level incoming Link Layer Discovery Protocol tunneled frames. Cumulative of all Ethernet interfaces including all the tunneled LLDP frames. LLDP frames are identified by a destination MAC value of 01:80:c2:00:00:0e and EtherType value of 0x88cc.
Context	system l2cp-transparency l2cp-statistics lldp in-tunneled-packets *number*
Tree	in-tunneled-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description	Timestamp of the last time the LACP counters were cleared.
Context	system l2cp-transparency l2cp-statistics lldp last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

ptp

Description	Enter the ptp context Container for Precision Time Protocol Peer-Delay protocol.
Context	system l2cp-transparency l2cp-statistics ptp
Tree	ptp
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

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in-trap-to-cpu-packets *number*

Description	System level incoming Precision Time Protocol Peer-Delay frames copied to CPU. Cumulative of all Ethernet interfaces including all the copy-to-cpu PTP frames. PTP frames are identified by a destination MAC value of 01:80:c2:00:00:0e and Ethertype value of 0x88F7.
Context	system l2cp-transparency l2cp-statistics ptp in-trap-to-cpu-packets *number*
Tree	in-trap-to-cpu-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-tunneled-packets *number*

Description	System level incoming Precision Time Protocol Peer-Delay tunneled frames. Cumulative of all Ethernet interfaces including all the tunneled PTP frames. PTP frames are identified by a destination MAC value of 01:80:c2:00:00:0e and Ethertype value of 0x88F7.
Context	system l2cp-transparency l2cp-statistics ptp in-tunneled-packets *number*
Tree	in-tunneled-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description	Timestamp of the last time the PTP counters were cleared.
Context	system l2cp-transparency l2cp-statistics ptp last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

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total-in-discarded-packets *number*

Description	System level incoming L2CP discarded frames. Cumulative of all Ethernet interfaces including all the discarded L2CP frames. L2CP frames are identified by a destination MAC value of 01:80:c2:00:00:0X or 01:80:c2:00:00:2X, being X any value in the 0..F range.
Context	system l2cp-transparency l2cp-statistics total-in-discarded-packets *number*
Tree	total-in-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

total-in-packets *number*

Description	System level total incoming L2CP frames. Cumulative of all Ethernet interfaces including the tunneled, discarded and copy-to-cpu L2CP frames. L2CP frames are identified by a destination MAC value of 01:80:c2:00:00:0X or 01:80:c2:00:00:2X, being X any value in the 0..F range.
Context	system l2cp-transparency l2cp-statistics total-in-packets *number*
Tree	total-in-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

total-in-trap-to-cpu-packets *number*

Description	System level incoming L2CP copy-to-cpu frames. Cumulative of all Ethernet interfaces including all the L2CP frames that are copied to CPU. L2CP frames are identified by a destination MAC value of 01:80:c2:00:00:0X or 01:80:c2:00:00:2X, being X any value in the 0..F range.
Context	system l2cp-transparency l2cp-statistics total-in-trap-to-cpu-packets *number*
Tree	total-in-trap-to-cpu-packets
Default	0
Configurable	False

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

total-in-tunneled-packets *number*

Description	System level incoming L2CP tunneled frames. Cumulative of all Ethernet interfaces including all the tunneled L2CP frames. L2CP frames are identified by a destination MAC value of 01:80:c2:00:00:0X or 01:80:c2:00:00:2X, being X any value in the 0..F range.
Context	system l2cp-transparency l2cp-statistics total-in-tunneled-packets *number*
Tree	total-in-tunneled-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

xstp

Description	Enter the xstp context Container for Spanning Tree Protocols.
Context	system l2cp-transparency l2cp-statistics xstp
Tree	xstp
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

in-trap-to-cpu-packets *number*

Description	System level incoming Spanning Tree Protocol frames copied to CPU. Cumulative of all Ethernet interfaces including all the copy-to-cpu Spanning Tree frames. Spanning Tree frames are identified by a destination MAC value of 01:80:c2:00:00:00 and LLC value 0x42.
Context	system l2cp-transparency l2cp-statistics xstp in-trap-to-cpu-packets *number*
Tree	in-trap-to-cpu-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

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in-tunneled-packets *number*

Description	System level incoming Spanning Tree tunneled frames. Cumulative of all Ethernet interfaces including all the tunneled Spanning Tree frames. xSTP frames are identified by a destination MAC value of 01:80:c2:00:00:00 and LLC value 0x42.
Context	system l2cp-transparency l2cp-statistics xstp in-tunneled-packets *number*
Tree	in-tunneled-packets
Default	0
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

last-clear *string*

Description	Timestamp of the last time the xSTP counters were cleared.
Context	system l2cp-transparency l2cp-statistics xstp last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

l2cp-total-statistics

Description	Enter the l2cp-total-statistics context Operational commands for the global L2CP statistics
Context	system l2cp-transparency l2cp-total-statistics
Tree	l2cp-total-statistics
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

lacp

Description	Enter the lacp context

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Operational commands for the Link Aggregation Control Protocol statistics

Context system l2cp-transparency lacp

Tree lacp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

lldp

Description Enter the lldp context

Operational commands for the Link Layer Discovery Protocol statistics

Context system l2cp-transparency lldp

Tree lldp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

ptp

Description Enter the ptp context

Operational commands for the Precision Time Protocol statistics

Context system l2cp-transparency ptp

Tree ptp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

xstp

Description Enter the xstp context

Operational commands for the Spanning Tree Protocols statistics

Context system l2cp-transparency xstp

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Tree xstp

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

lacp

Description Enter the lacp context

Context system lacp

Tree lacp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-id *string*

Description The MAC address portion of the node's System ID. This is combined with the system priority to construct the 8-octet system-id

Context system lacp system-id *string*

Tree system-id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-priority *number*

Description System priority used by the node on this LAG interface. Lower value is higher priority for determining which node is the controlling system.

Context system lacp system-priority *number*

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Tree	system-priority
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

license id *string*

Description	List of licenses configured on the system
Context	system license id *string*
Tree	license
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	5

id *string*

Description	Unique identifier for this license
Context	system license id *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Enable or disable the use of this license

Context system license id *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data *string*

Description Content of the license

This content includes a preceding UUID, followed by a space and the license data.

For example: 00000000-0000-0000-0000-000000000000 aACUAx...r YzNRPT0AAAAA

Context system license id *string* data *string*

Tree data

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description A user provided description for the license

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Context	system license id *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entitlements

Description	Enter the entitlements context Operational state data for feature entitlements granted by this license This container reflects the right-to-use (RTU) entitlements encoded within the license key. Additional entitlements may be added here as features are introduced.
Context	system license id *string* entitlements
Tree	entitlements
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lawful-intercept *boolean*

Description	Indicates if this license grants the right-to-use (RTU) for lawful intercept functionality
Context	system license id *string* entitlements lawful-intercept *boolean*
Tree	lawful-intercept
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expiration-date *string*

Description Date and time the license will expire

Context system license id *string* expiration-date *string*

Tree expiration-date

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expired *boolean*

Description Indicates if the license has expired

Context system license id *string* expired *boolean*

Tree expired

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-use *boolean*

Description Indicates if the license is actively in use

Context system license id *string* in-use *boolean*

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Tree	in-use
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

issued-date *string*

Description	Date and time the license was issued
Context	system license id *string* issued-date *string*
Tree	issued-date
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preferred *boolean*

Description	Set a license as being preferred Amongst all valid licenses, the preferred license will be chosen to become active. If no license is set as preferred or the preferred license is not valid, the valid license with the most distant expiry is chosen to become active. Only a single license can be set as preferred.
Context	system license id *string* preferred *boolean*
Tree	preferred
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid *boolean*

Description Indicates if the license is valid for use

Context system license id *string* valid *boolean*

Tree valid

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lldp

Description Top-level container for LLDP configuration and state data

Context system lldp

Tree lldp

Configurable True

Platforms Supported on all platforms

admin-state *keyword*

Description Enable or disable LLDP at the system level

Context system lldp admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

Platforms Supported on all platforms

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chassis-id *string*

Description The Chassis ID is a mandatory TLV which identifies the chassis component of the endpoint identifier associated with the transmitting LLDP agent

Context system lldp chassis-id *string*

Tree chassis-id

Configurable False

Platforms Supported on all platforms

chassis-id-type *keyword*

Description The source for the chassis identifier string

It is an enumerator defined by the LldpChassisIdSubtype object from IEEE 802.1AB MIB.

Context system lldp chassis-id-type *keyword*

Tree chassis-id-type

Default MAC_ADDRESS

Options

- CHASSIS_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port or backplane component

- MAC_ADDRESS

  Chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001

- NETWORK_ADDRESS

  Chassis identifier based on a network address, associated with a particular chassis. The encoded address is composed of two fields. The first field is a single octet, representing the IANA AddressFamilyNumbers value for the specific address type, and the second field is the network address value

- INTERFACE_NAME

  Chassis identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

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- LOCAL

  Chassis identifier based on a locally defined value

Configurable	False
Platforms	Supported on all platforms

hello-timer *number*

Description	System level hello timer for the LLDP protocol
Context	system lldp hello-timer *number*
Tree	hello-timer
Default	30
Units	seconds
Configurable	True
Platforms	Supported on all platforms

hold-multiplier *number*

Description	System level hold multiplier, used to define neighbor aging This field defines how many hellos need to be missed before a neighbor is aged out. This field also is used along with the 'hello-timer' field to define the TTL TLV in outgoing LLDPDUs.
Context	system lldp hold-multiplier *number*
Tree	hold-multiplier
Default	4
Configurable	True
Platforms	Supported on all platforms

interface name *reference*

Description	List of interfaces on which LLDP can be enabled
Context	system lldp interface name *reference*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

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name *reference*

Description	Reference to the LLDP Ethernet interface
Context	system lldp interface name *reference*
Reference	interface name *string*
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Enable or disable LLDP on the interface
Context	system lldp interface name *reference* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

neighbor id *string*

Description	List of LLDP neighbors on this interface
Context	system lldp interface name *reference* neighbor id *string*
Tree	neighbor
Configurable	False
Platforms	Supported on all platforms

id *string*

Description	System generated identifier for the remote neighbor
Context	system lldp interface name *reference* neighbor id *string*
Configurable	False
Platforms	Supported on all platforms

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capability name *identityref*

Description List of LLDP system capabilities advertised by the neighbor

Context system lldp interface name *reference* neighbor id *string* capability name *identityref*

Tree capability

Configurable False

Platforms Supported on all platforms

name *identityref*

Description Name of the system capability advertised by the neighbor

Capabilities are represented in a bitmap that defines the primary functions of the system. The capabilities are defined in IEEE 802.1AB.

Context system lldp interface name *reference* neighbor id *string* capability name *identityref*

Options

- OTHER

  Other capability not specified; bit position 1
- REPEATER

  Repeater capability; bit position 2
- MAC_BRIDGE

  MAC bridge capability; bit position 3
- WLAN_ACCESS_POINT

  WLAN access point capability; bit position 4
- ROUTER

  Router; bit position 5
- TELEPHONE

  Telephone capability; bit position 6
- DOCSIS_CABLE_DEVICE

  DOCSIS cable device; bit position 7
- STATION_ONLY

  Station only capability, for devices that implement only an end station capability, and for which none of the other capabilities apply; bit position 8
- C_VLAN

  C-VLAN component of a VLAN Bridge; bit position 9
- S_VLAN

  S-VLAN component of a VLAN Bridge; bit position 10

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- TWO_PORT_MAC_RELAY

  Two-port MAC Relay (TPMR) capability; bit position 11

Configurable False

Platforms Supported on all platforms

enabled *boolean*

Description Indicates whether the corresponding system capability is enabled on the neighbor

Context system lldp interface name *reference* neighbor id *string* capability name *identityref* enabled *boolean*

Tree enabled

Configurable False

Platforms Supported on all platforms

chassis-id *string*

Description The chassis ID of the remote neighbor

The Chassis ID is a mandatory TLV which identifies the chassis component of the endpoint identifier associated with the transmitting LLDP agent

Context system lldp interface name *reference* neighbor id *string* chassis-id *string*

Tree chassis-id

Configurable False

Platforms Supported on all platforms

chassis-id-type *keyword*

Description The type of identifier used in the chassis-id field

This field identifies the format and source of the chassis identifier string. It is an enumerator defined by the LldpChassisIdSubtype object from IEEE 802.1AB MIB.

Context system lldp interface name *reference* neighbor id *string* chassis-id-type *keyword*

Tree chassis-id-type

Default MAC_ADDRESS

Options

- CHASSIS_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737

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- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Chassis identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port or backplane component

- MAC_ADDRESS

  Chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001

- NETWORK_ADDRESS

  Chassis identifier based on a network address, associated with a particular chassis. The encoded address is composed of two fields. The first field is a single octet, representing the IANA AddressFamilyNumbers value for the specific address type, and the second field is the network address value

- INTERFACE_NAME

  Chassis identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- LOCAL

  Chassis identifier based on a locally defined value

Configurable False

Platforms Supported on all platforms

custom-tlv type *number* oui *string* oui-subtype *string*

Description List of custom LLDP TLVs from a neighbor

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string*

Tree custom-tlv

Configurable False

Platforms Supported on all platforms

type *number*

Description The integer value identifying the type of information contained in the value field.

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string*

Configurable False

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Platforms Supported on all platforms

oui *string*

Description The organizationally unique identifier field from the custom TLV

This field shall contain the organization's OUI as defined in Clause 9 of IEEE Std 802. The high-order octet is 0 and the low-order 3 octets are the SMI Network Management Private Enterprise Code of the Vendor in network byte order, as defined in the 'Assigned Numbers' RFC [RFC3232].

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string*

Configurable False

Platforms Supported on all platforms

oui-subtype *string*

Description The subtype value defined by the OUI for this custom TLV

The organizationally defined subtype field shall contain a unique subtype value assigned by the defining organization.

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string*

Configurable False

Platforms Supported on all platforms

aggregation

Description Enter the aggregation context

Context for aggregation capabilities and status

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* aggregation

Tree aggregation

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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aggregated-port-id *number*

Description Integer representation of the aggregated-port-id

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* aggregation aggregated-port-id *number*

Tree aggregated-port-id

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capable *boolean*

Description Whether the port is capable of aggregation

Conditionally displayed for OUI 00:80:C2 subtype 7

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* aggregation capable *boolean*

Tree capable

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-type *identityref*

Description Aggregation status port type

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* aggregation port-type *identityref*

Tree port-type

Options

- NO_PORT_TYPE

  No port type specified value 00
- AGGREGATION_PORT

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Transmitted from an aggregation port value 01

- AGGREGATOR

  Transmitted from an aggregator value 10

- AGGREGATOR_SINGLE_PORT

  Transmitted from an aggregator with a single aggregation port value 11

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *identityref*

Description Whether the port is currently aggregated or not aggregated

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* aggregation status *identityref*

Tree status

Options

- NOT_AGGREGATED

  Port is not currently aggregated value 0

- AGGREGATED

  Port is currently aggregated value 1

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-frame-size *number*

Description Maximum frame size capability of the MAC/PHY

Conditionally displayed for OUI 00:12:0F subtype 04

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* maximum-frame-size *number*

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Tree	maximum-frame-size
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-id-vlan *number*

Description	VLAN ID associated with the native VLAN Conditionally displayed for OUI 00:80:C2 subtype 01
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* port-id-vlan *number*
Tree	port-id-vlan
Range	0 to 4094
Configurable	False
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

ue-link-neg-options

Description	Enter the ue-link-neg-options context
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* ue-link-neg-options
Tree	ue-link-neg-options
Configurable	False
Platforms	7220 IXR-H6-64

link-options

Description	Enter the link-options context
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* ue-link-neg-options link-options
Tree	link-options

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Configurable	False
Platforms	7220 IXR-H6-64

csig-capability *identityref*

Description	Enter the csig-capability context
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* ue-link-neg-options link-options csig-capability *identityref*
Tree	csig-capability
Options	• CSIG_NO CSIG not available on this port 0x0 • CSIG_COMPACT_ONLY Only CSIG compact available on this port 0x1 • CSIG_WIDE_ONLY ONLY CSIG wide available on this port 0x2 • CSIG_BOTH Both CSIG wide and CSIG compact available on this port 0x3
Configurable	False
Platforms	7220 IXR-H6-64

version *number*

Description	Enter the version context
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* ue-link-neg-options version *number*
Tree	version
Configurable	False
Platforms	7220 IXR-H6-64

value *binary*

Description	A variable-length octet-string containing the value for this TLV
Context	system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* value *binary*
Tree	value
Configurable	False

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Platforms Supported on all platforms

vlan-id-name-map id *number* name *string*

Description VLAN ID to VLAN Name mapping

Conditionally displayed for OUI 00:80:C2 subtype 03

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* vlan-id-name-map id *number* name *string*

Tree vlan-id-name-map

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

id *number*

Description VLAN ID associated with the name

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* vlan-id-name-map id *number* name *string*

Range 0 to 4094

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

name *string*

Description Name associated with the VLAN ID

Context system lldp interface name *reference* neighbor id *string* custom-tlv type *number* oui *string* oui-subtype *string* vlan-id-name-map id *number* name *string*

Configurable False

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

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first-message *string*

Description	Date and time of the first message from neighbor
Context	system lldp interface name *reference* neighbor id *string* first-message *string*
Tree	first-message
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

last-update *string*

Description	Date and time of the last update from neighbor
Context	system lldp interface name *reference* neighbor id *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

management-address address *string*

Description	List of management addresses received from the remote LLDP neighbor
Context	system lldp interface name *reference* neighbor id *string* management-address address *string*
Tree	management-address
Configurable	False
Platforms	Supported on all platforms

address *string*

Description	The management address received from the remote LLDP neighbor The Management Address is a mandatory TLV which identifies a network address associated with the LLDP agent, which can be used to reach the agent on the port identified in the Port ID TLV.
Context	system lldp interface name *reference* neighbor id *string* management-address address *string*
Configurable	False
Platforms	Supported on all platforms

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type *keyword*

Description The type of management address referenced in the address field

The enumerated value for the network address type identified in this TLV. This enumeration is defined in the 'Assigned Numbers' RFC [RFC3232] and the ianaAddressFamilyNumbers object.

Context system lldp interface name *reference* neighbor id *string* management-address address *string* type *keyword*

Tree type

Options

- IPv4

  Use IPv4 address for management address type

- IPv6

  Use IPv6 address for management address type

Configurable False

Platforms Supported on all platforms

port-description *string*

Description The description of the port referenced in the port-id field

The binary string containing the actual port identifier for the port which this LLDP PDU was transmitted. The source and format of this field is defined by PtopoPortId from RFC2922.

Context system lldp interface name *reference* neighbor id *string* port-description *string*

Tree port-description

Configurable False

Platforms Supported on all platforms

port-id *(string | binary)*

Description The Port ID of the remote neighbor

The Port ID is a mandatory TLV which identifies the port component of the endpoint identifier associated with the transmitting LLDP agent. If the specified port is an IEEE 802.3 Repeater port, then this TLV is optional.

Context system lldp interface name *reference* neighbor id *string* port-id *(string | binary)*

Tree port-id

Configurable False

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Platforms Supported on all platforms

port-id-type *keyword*

Description The type of identifier used in the port-id field

This field identifies the format and source of the port identifier string. It is an enumerator defined by the PtopoPortIdType object from RFC2922.

Context system lldp interface name *reference* neighbor id *string* port-id-type *keyword*

Tree port-id-type

Options

- INTERFACE_ALIAS

  Chassis identifier based on the value of ifAlias object defined in IETF RFC 2863

- PORT_COMPONENT

  Port identifier based on the value of entPhysicalAlias object defined in IETF RFC 2737 for a port component

- MAC_ADDRESS

  Port identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with a port

- NETWORK_ADDRESS

  Port identifier based on a network address, associated with a particular port

- INTERFACE_NAME

  Port identifier based on the name of the interface, e.g., the value of if Name object defined in IETF RFC 2863

- AGENT_CIRCUIT_ID

  Port identifer based on the circuit id in the DHCP relay agent information option as defined in IETF RFC 3046

- LOCAL

  Port identifier based on a locally defined alphanumeric string

Configurable False

Platforms Supported on all platforms

system-description *string*

Description The system description of the remote neighbor

The system description field shall contain an alpha-numeric string that is the textual description of the network entity. The system description should include the full name and version identification of the system's

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hardware type, software operating system, and networking software. If implementations support IETF RFC 3418, the sysDescr object should be used for this field.

Context system lldp interface name *reference* neighbor id *string* system-description *string*

Tree system-description

String Length 0 to 255

Configurable False

Platforms Supported on all platforms

system-name *string*

Description The administratively assigned name of the remote neighbor

The system name field shall contain an alpha-numeric string that indicates the system's administratively assigned name. The system name should be the system's fully qualified domain name. If implementations support IETF RFC 3418, the sysName object should be used for this field.

Context system lldp interface name *reference* neighbor id *string* system-name *string*

Tree system-name

String Length 0 to 255

Configurable False

Platforms Supported on all platforms

oper-state *keyword*

Description Details the operational state of LLDP on the interface

Context system lldp interface name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

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Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

statistics

Description LLDP counters on each interface

Context system lldp interface name *reference* statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

frame-discard *number*

Description The number of LLDP frames received and discarded

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Context	system lldp interface name *reference* statistics frame-discard *number*
Tree	frame-discard
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-error-in *number*

Description	The number of LLDP frames received with errors
Context	system lldp interface name *reference* statistics frame-error-in *number*
Tree	frame-error-in
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-error-out *number*

Description	The number of frame transmit errors on the interface
Context	system lldp interface name *reference* statistics frame-error-out *number*
Tree	frame-error-out
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-in *number*

Description	The number of LLDP frames received
Context	system lldp interface name *reference* statistics frame-in *number*
Tree	frame-in
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-out *number*

Description	The number of LLDP frames transmitted

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Context	system lldp interface name *reference* statistics frame-out *number*
Tree	frame-out
Default	0
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Indicates the last time the counters were cleared
Context	system lldp interface name *reference* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

tlv-discard *number*

Description	The number of TLV frames received and discarded
Context	system lldp interface name *reference* statistics tlv-discard *number*
Tree	tlv-discard
Default	0
Configurable	False
Platforms	Supported on all platforms

tlv-unknown *number*

Description	The number of frames received with unknown TLV
Context	system lldp interface name *reference* statistics tlv-unknown *number*
Tree	tlv-unknown
Default	0
Configurable	False
Platforms	Supported on all platforms

vlan

Description	Enter the vlan context

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Administrative configuration for organizational LLDP VLAN TLVs (PORT_VLAN_ID and VLAN_NAME)

Context system lldp interface name *reference* vlan

Tree vlan

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

id-name-map id *number*

Description The list of VLAN ID to NAME mappings

Context system lldp interface name *reference* vlan id-name-map id *number*

Tree id-name-map

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

id *number*

Description LLDP TLV VLAN NAME ID value

Context system lldp interface name *reference* vlan id-name-map id *number*

Range 0 to 4094

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

name *string*

Description LLDP TLV VLAN NAME name value

Context system lldp interface name *reference* vlan id-name-map id *number* name *string*

Tree name

String Length 1 to 32

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

native-vlan *number*

Description	LLDP TLV PORT ID VLAN value
Context	system lldp interface name *reference* vlan native-vlan *number*
Tree	native-vlan
Range	0 to 4094
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

management-address subinterface *string*

Description	List of subinterfaces to source management addresses from This list is sent in the management address TLV by LLDP.
Context	system lldp management-address subinterface *string*
Tree	management-address
Configurable	True
Platforms	Supported on all platforms

subinterface *string*

Description	Reference to the subinterface to source management addresses
Context	system lldp management-address subinterface *string*
String Length	5 to 27
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	Types of addresses sent in the management address TLV

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The enumerated value for the network address type identified in this TLV. This enumeration is defined in the 'Assigned Numbers' RFC [RFC3232] and the ianaAddressFamilyNumbers object.

Context system lldp management-address subinterface *string* type *keyword*

Tree type

Options

- IPv4

  Use IPv4 address for management address type
- IPv6

  Use IPv6 address for management address type

Configurable True

Platforms Supported on all platforms

statistics

Description Global LLDP counters

Context system lldp statistics

Tree statistics

Configurable False

Platforms Supported on all platforms

entries-aged-out *number*

Description The number of entries aged out due to timeout.

Context system lldp statistics entries-aged-out *number*

Tree entries-aged-out

Default 0

Configurable False

Platforms Supported on all platforms

frame-discard *number*

Description The number of LLDP frames received and discarded

Context system lldp statistics frame-discard *number*

Tree frame-discard

Default 0

Configurable False

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Platforms	Supported on all platforms

frame-error-in *number*

Description	The number of LLDP frames received with errors
Context	system lldp statistics frame-error-in *number*
Tree	frame-error-in
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-in *number*

Description	The number of LLDP frames received
Context	system lldp statistics frame-in *number*
Tree	frame-in
Default	0
Configurable	False
Platforms	Supported on all platforms

frame-out *number*

Description	The number of LLDP frames transmitted
Context	system lldp statistics frame-out *number*
Tree	frame-out
Default	0
Configurable	False
Platforms	Supported on all platforms

last-clear *string*

Description	Indicates the last time the counters were cleared
Context	system lldp statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False

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Platforms	Supported on all platforms

tlv-accepted *number*

Description	The number of valid TLVs received.
Context	system lldp statistics tlv-accepted *number*
Tree	tlv-accepted
Default	0
Configurable	False
Platforms	Supported on all platforms

tlv-discard *number*

Description	The number of TLV frames received and discarded
Context	system lldp statistics tlv-discard *number*
Tree	tlv-discard
Default	0
Configurable	False
Platforms	Supported on all platforms

tlv-unknown *number*

Description	The number of frames received with unknown TLV
Context	system lldp statistics tlv-unknown *number*
Tree	tlv-unknown
Default	0
Configurable	False
Platforms	Supported on all platforms

suppress-tlv-advertisement *identityref*

Description	Indicates whether the local system should suppress the advertisement of particular TLVs with the LLDP PDUs that it transmits. Where a TLV type is specified within this list, it should not be included in any LLDP PDU transmitted by the local agent.
Context	system lldp suppress-tlv-advertisement *identityref*
Tree	suppress-tlv-advertisement

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Options

- CHASSIS_ID

  The chassis identifier of the device associated with the transmitting LLDP agent
- PORT_ID

  The port identifier associated with the interface on with the LLDP agent is transmitting
- PORT_DESCRIPTION

  The description of the port that is associated with the interface on which the LLDP agent is transmitting
- SYSTEM_NAME

  The assigned name (sysName or hostname) of the device which is transmitting the LLDP PDU
- SYSTEM_DESCRIPTION

  The description (sysDescr) of the device which is transmitting the LLDP PDU
- SYSTEM_CAPABILITIES

  The primary functions of the device transmitting the LLDP PDU and their administrative status
- MANAGEMENT_ADDRESS

  The address associated with the device transmitting the LLDP PDU which can be used for higher-layer network management
- PORT_ID_VLAN

  The VLAN ID that to be associated with untagged packets arriving on a tagged interconnect
- VLAN_NAME

  The VLAN name and VLAN ID association
- MAXIMUM_FRAME_SIZE

  The maximum frame size capability of the MAC and PHY
- LINK_AGGREGATION

  The interface support of link aggregation, and the current state of aggregation
- ETS_CONFIGURATION_TLV

  Enhanced Transmission Selection Configuration
- ETS_RECOMMENDATION_TLV

  Enhanced Transmission Selection Recommendation
- PFC_CONFIGURATION_TLV

  Priority Flow Control

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-description *string*

Description	Field detailing system description, including name and versions The system description field shall contain an alpha-numeric string that is the textual description of the network entity. The system description should include the full name and version identification of the system's hardware type, software operating system, and networking software.
Context	system lldp system-description *string*
Tree	system-description
String Length	0 to 255
Configurable	False
Platforms	Supported on all platforms

system-name *string*

Description	The systems administratively assigned name The system name field shall contain an alpha-numeric string that indicates the system's administratively assigned name. The system name should be the system's fully qualified domain name.
Context	system lldp system-name *string*
Tree	system-name
String Length	0 to 255
Configurable	False
Platforms	Supported on all platforms

trace-options *keyword*

Description	LLDP trace options
Context	system lldp trace-options *keyword*
Tree	trace-options
Options	• received

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- transmitted
- common

Configurable True

Platforms Supported on all platforms

load-balancing

Description Enter the load-balancing context

Adjust system-wide ECMP load balancing options.

Context system load-balancing

Tree load-balancing

Configurable True

Platforms Supported on all platforms except BALANCING AND NOT PLATFORM

dynamic

Description Enter the dynamic context

Context system load-balancing dynamic

Tree dynamic

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

default-load-balancing *keyword*

Description Set the default load-balancing method for traffic forwarding towards DLB prefixes

When a policy-forwarding rule does not specify a load-balance action, traffic is forwarded using this system-wide default.

Context system load-balancing dynamic default-load-balancing *keyword*

Tree default-load-balancing

Default dynamic

Options

- static

  Use static ECMP hash-based load-balancing
- dynamic

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Use dynamic-load-balancing when DLB is enabled for the associated next-hop-group and applicable

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

flowset-size *keyword*

Description Number of movable flows per ECMP group

Context system load-balancing dynamic flowset-size *keyword*

Tree flowset-size

Default 256

Options

- 256
- 512
- 1024
- 2048
- 4096
- 8192
- 16384
- 32768

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

inactivity-timer *number*

Description Minimum inactivity time for a flow before it can be moved to a better quality interface

Context system load-balancing dynamic inactivity-timer *number*

Tree inactivity-timer

Range 50 to 32767

Default 50

Units microseconds

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

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link-quality-sampling-interval *number*

Description	Interval between link quality metrics samples The interval determines how often the link quality is revisited adn updated
Context	system load-balancing dynamic link-quality-sampling-interval *number*
Tree	link-quality-sampling-interval
Range	1 to 255
Default	5
Units	microseconds
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

mode *keyword*

Description	Dynamic load-balancing mode
Context	system load-balancing dynamic mode *keyword*
Tree	mode
Default	flow-dynamic
Options	• flow-fixed Load-balancing assigns each flow to an ECMP member at the time when the ECMP group is created and flows do not move after this initial assignment • flow-dynamic Load-balancing assigns flows to ECMP members at the time when the ECMP group is created and can re-assign a flow to a new ECMP member whenever the flow is inactive • per-packet Load-balancing assigns each packet to an ECMP member using a round-robin discipline that disregards the loading of different interfaces
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

weighting-factor

Description	Enter the weighting-factor context
Context	system load-balancing dynamic weighting-factor

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Tree	weighting-factor
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

itm-utilization *number*

Description	Weight (percentage) assigned to the Ingress-Traffic Manager queue-utilization within the dynamic load-balancing algorithm
Context	system load-balancing dynamic weighting-factor itm-utilization *number*
Tree	itm-utilization
Range	0 to 100
Default	10
Units	percentage
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

port-utilization *number*

Description	Weight (percentage) assigned to port-utilization within the dynamic load-balancing algorithm
Context	system load-balancing dynamic weighting-factor port-utilization *number*
Tree	port-utilization
Range	0 to 100
Default	70
Units	percentage
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

queue-utilization *number*

Description	Weight (percentage) assigned to queue-utilization within the dynamic load-balancing algorithm
Context	system load-balancing dynamic weighting-factor queue-utilization *number*
Tree	queue-utilization

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Range	0 to 100
Default	20
Units	percentage
Configurable	True
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

hash-options

Description	Enter the hash-options context Container for packet header fields and other inputs used in hashing calculations
Context	system load-balancing hash-options
Tree	hash-options
Configurable	True
Platforms	Supported on all platforms

destination-address *boolean*

Description	Include the destination IP address in the hash calculation
Context	system load-balancing hash-options destination-address *boolean*
Tree	destination-address
Default	true
Configurable	True
Platforms	Supported on all platforms

destination-port *boolean*

Description	Include the destination TCP/UDP port number in the hash calculation if the packet is an unfragmented IP packet carrying a TCP/UDP payload
Context	system load-balancing hash-options destination-port *boolean*
Tree	destination-port
Default	true
Configurable	True
Platforms	Supported on all platforms

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hash-seed *(number | keyword)*

Description	The hash seed to use for random selection of ECMP/LAG members To avoid polarization effects, directly-connected nodes should have unique hash-seeds. This can be achieved through explicit configuration of the hash-seed, or using the generate-from-mac option (which is the default), and checking that the auto-generated hash-seed is in fact unique (by reading the state value of this leaf).
Context	system load-balancing hash-options hash-seed *(number | keyword)*
Tree	hash-seed
Default	generate-from-mac
Options	• generate-from-mac
Configurable	True
Platforms	Supported on all platforms

ipv6-flow-label *boolean*

Description	Include the IPv6 flow label in the hash calculation if the packet is an IPv6 packet It is expected that the IPv6 flow label value is written by the server or other host originating the flow and not changed by any intermediate switch or router.
Context	system load-balancing hash-options ipv6-flow-label *boolean*
Tree	ipv6-flow-label
Default	false
Configurable	True
Platforms	Supported on all platforms

mpls-label-stack *boolean*

Description	Include the received labels (terminated and non-terminated) in the hash calculation
Context	system load-balancing hash-options mpls-label-stack *boolean*
Tree	mpls-label-stack
Default	true
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

per-complex-randomization *boolean*

Description	When set true, hashing uses a different random parser seed on each forwarding complex When set false, every forwarding complex uses the same parser seed In general, the true setting provides better hashing performance. Consider false only if traffic belonging to a specific flow show always hash to the same egress next-hop, even when a reroute or some other network event causes the flow to land on a different ingress complex
Context	system load-balancing hash-options per-complex-randomization *boolean*
Tree	per-complex-randomization
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *boolean*

Description	Include the IP protocol number in the hash calculation. For an IPv6 packet this is protocol value in the next-header field of the last extension header.
Context	system load-balancing hash-options protocol *boolean*
Tree	protocol
Default	true
Configurable	True
Platforms	Supported on all platforms

source-address *boolean*

Description	Include the source IP address in the hash calculation
Context	system load-balancing hash-options source-address *boolean*
Tree	source-address
Default	true
Configurable	True

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Platforms	Supported on all platforms

source-port *boolean*

Description	Include the source TCP/UDP port number in the hash calculation if the packet is an unfragmented IP packet carrying a TCP/UDP payload
Context	system load-balancing hash-options source-port *boolean*
Tree	source-port
Default	true
Configurable	True
Platforms	Supported on all platforms

terminated-eth-fields *boolean*

Description	When set true, hashing uses Ethernet header fields that are terminated when an IP/MPLS packet is forwarded When set false, L3 forwarding does not consider any Ethernet header fields in the hash calculation. In general, the true setting provides better hashing performance.
Context	system load-balancing hash-options terminated-eth-fields *boolean*
Tree	terminated-eth-fields
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vlan *boolean*

Description	Include the received VLAN ID in the hash calculation
Context	system load-balancing hash-options vlan *boolean*
Tree	vlan
Default	true
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D

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hash-profile name *string*

Description	List of user configured hash profiles
Context	system load-balancing hash-profile name *string*
Tree	hash-profile
Configurable	True
Platforms	7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The name of the user-configured hash profile
Context	system load-balancing hash-profile name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

hash-seed *number*

Description	The hash seed to use for random selection of ECMP/LAG members To avoid polarization effects, directly-connected nodes should have unique hash-seeds.
Context	system load-balancing hash-profile name *string* hash-seed *number*
Tree	hash-seed
Configurable	True
Platforms	7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

logging

Description	Enter the logging context System logging provides the interface to syslog services to setup output entities on a selection of log sources.
Context	system logging
Tree	logging
Configurable	True

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Platforms	Supported on all platforms

buffer buffer-name *string*

Description	Log files maintained in memory, non-persistent across system reboots These files are stored at directory /var/log/srlinux/buffer. Rotation into multiple files is available.
Context	system logging buffer buffer-name *string*
Tree	buffer
Configurable	True
Platforms	Supported on all platforms

buffer-name *string*

Description	Base name of the file(s) to be stored in memory
Context	system logging buffer buffer-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

facility facility-name *keyword*

Description	List of facilities to source messages from
Context	system logging buffer buffer-name *string* facility facility-name *keyword*
Tree	facility
Configurable	True
Platforms	Supported on all platforms

facility-name *keyword*

Description	Name of a Linux syslog facility
Context	system logging buffer buffer-name *string* facility facility-name *keyword*
Options	• all • audit • auth • authpriv

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- console
- cron
- daemon
- ftp
- kern
- lpr
- mail
- news
- ntp
- syslog
- user
- uucp
- local0
- local1
- local2
- local3
- local4
- local5
- local6
- local7

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging buffer buffer-name *string* facility facility-name *keyword* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

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Context	system logging buffer buffer-name *string* facility facility-name *keyword* priority match-above *keyword*
Tree	match-above
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

match-exact *keyword*

Description	Individually specified severities
Context	system logging buffer buffer-name *string* facility facility-name *keyword* priority match-exact *keyword*
Tree	match-exact
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

filter *reference*

Description	A set of all-matching criteria that messages must fulfill in order to be captured
Context	system logging buffer buffer-name *string* filter *reference*

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Tree	filter
Reference	system logging filter filter-name *string*
Configurable	True
Platforms	Supported on all platforms

format *(string | keyword)*

Description	Text format of syslog messages to a local output (buffer, file or console), in legacy rsyslog $template style or one of the predefined templates The default presents a date timestamp according to rfc3339. The predefined templates are the ones supported by rsyslogd.
Context	system logging buffer buffer-name *string* format *(string | keyword)*
Tree	format
String Length	1 to 255
Default	RSYSLOG_FileFormat
Options	• RSYSLOG_FileFormat • RSYSLOG_TraditionalFileFormat • RSYSLOG_DebugFormat
Configurable	True
Platforms	Supported on all platforms

persist *number*

Description	Time in seconds to shadow the buffer to persistent storage Setting this field to 0 results in the buffer not being persisted. A value other than 0 will result in the log being persisted to disk based on the configured value. Logs with a non-zero persist value are persisted automatically on rollover, or at the configured value.
Context	system logging buffer buffer-name *string* persist *number*
Tree	persist
Range	0 | 60 to 604800
Default	0
Units	seconds
Configurable	True
Platforms	Supported on all platforms

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rotate *number*

Description	Number of files to keep in rotation when a maximum file size is reached
Context	system logging buffer buffer-name *string* rotate *number*
Tree	rotate
Default	4
Configurable	True
Platforms	Supported on all platforms

rotations *number*

Description	Number of file rotations occurred
Context	system logging buffer buffer-name *string* rotations *number*
Tree	rotations
Default	0
Configurable	False
Platforms	Supported on all platforms

size *string*

Description	Number of bytes an individual output file cannot exceed The field allows the 'K, M, or G' suffixes as shorthand. When reaching that size, a rotation happens and subsequent data is stored in a new file with the same base name.
Context	system logging buffer buffer-name *string* size *string*
Tree	size
Default	10M
Configurable	True
Platforms	Supported on all platforms

subsystem subsystem-name *identityref*

Description	Entity or entities that may produce messages to be captured
Context	system logging buffer buffer-name *string* subsystem subsystem-name *identityref*
Tree	subsystem

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Configurable True

Platforms Supported on all platforms

subsystem-name *identityref*

Description Reference to an available subsystem to source messages from

Context system logging buffer buffer-name *string* subsystem subsystem-name *identityref*

Options

- aaa

  Messages generated by aaa_mgr (not including accounting)
- accounting

  Accounting messages generated by aaa_mgr
- acl

  Messages generated through an acl_mgr log action
- alarm

  Messages generated by alarm_mgr
- app

  Messages generated by app_mgr
- arpnd

  Messages generated by arp_nd_mgr
- bfd

  Messages generated by bfd_mgr
- bgp

  Messages generated by bgp_mgr
- bridgetable

  Messages generated by fdb_mgr
- cflowd

  Messages generated by cflowd_mgr
- chassis

  Messages generated by chassis_mgr
- debug

  Messages generated by application debug
- dhcp

  Messages generated by dhcp_client_mgr
- ethcfm

  Messages generated by ethcfm_mgr

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- evpn
  Messages generated by evpn_mgr
- fib
  Messages generated by fib_mgr
- gnmi
  Messages generated by gnmi_server
- gnoi
  Messages generated by gnoi_mgr
- gnpsi
  Messages generated by gnpsi_mgr
- gnsi
  Messages generated by gnsi_mgr
- gribi
  Messages generated by gribi_server
- grpc
  Messages generated by grpc_mgr
- igmp
  Messages generated by igmp_mgr
- isis
  Messages generated by isis_mgr
- json
  Messages generated by json_rpc_server
- lag
  Messages generated by lag_mgr
- ldp
  Messages generated by ldp_mgr
- license
  Messages generated by license_mgr
- linux
  Messages generated by linux_mgr
- lldp
  Messages generated by lldp_mgr
- log
  Messages generated by log_mgr
- macsec
  Messages generated by macsec_mgr

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- mgmt
  Messages generated by mgmt_server
- mirror
  Messages generated by mirror_mgr
- mld
  Messages generated by mld_mgr
- mpls
  Messages generated by mpls_mgr
- msdp
  Messages generated by msdp_mgr
- netconf
  Messages generated by netconf_mgr
- netinst
  Messages generated by net_inst_mgr
- oam_pm
  Messages generated by oam_pm_mgr
- ospf
  Messages generated by ospf_mgr
- p4rt
  Messages generated by p4rt_server
- pcc
  Messages generated by pcc_mgr
- pim
  Messages generated by pim_mgr
- platform
  Messages generated by chassis_mgr
- policy
  Messages generated by policy_mgr
- pw
  Messages generated by pw_mgr
- qos
  Messages generated by qos_mgr
- rpki
  Messages generated by rpkimgr
- sath
  Messages generated by sath_mgr

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- sdk
  Messages generated by sdk_mgr
- sflow
  Messages generated by sflow_sample_mgr
- staticroute
  Messages generated by static_route_mgr
- stp
  Messages generated by stp_mgr
- sync
  Messages generated by sync_mgr
- tls
  Messages generated by tls_mgr
- twamp
  Messages generated by twamp_mgr
- usrcontainer
  Messages identified as user container executed operations
- vxlan
  Messages generated by vxlan_mgr
- xdp
  Messages generated by xdp_mgr

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging buffer buffer-name *string* subsystem subsystem-name *identityref* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

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Context system logging buffer buffer-name *string* subsystem subsystem-name *identityref* priority match-above *keyword*

Tree match-above

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

Context system logging buffer buffer-name *string* subsystem subsystem-name *identityref* priority match-exact *keyword*

Tree match-exact

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

console

Description Enter the console context

Hardware serial device normally used for bring-up and diagnostics

Context system logging console

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Tree	console
Configurable	True
Platforms	Supported on all platforms

facility facility-name *keyword*

Description	List of facilities to source messages from
Context	system logging console facility facility-name *keyword*
Tree	facility
Configurable	True
Platforms	Supported on all platforms

facility-name *keyword*

Description	Name of a Linux syslog facility
Context	system logging console facility facility-name *keyword*
Options	• all • audit • auth • authpriv • console • cron • daemon • ftp • kern • lpr • mail • news • ntp • syslog • user • uucp • local0 • local1 • local2 • local3

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- local4
- local5
- local6
- local7

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging console facility facility-name *keyword* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

Context system logging console facility facility-name *keyword* priority match-above *keyword*

Tree match-above

Options

- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

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Context	system logging console facility facility-name *keyword* priority match-exact *keyword*
Tree	match-exact
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

filter *reference*

Description	A set of all-matching criteria that messages must fulfill in order to be captured
Context	system logging console filter *reference*
Tree	filter
Reference	system logging filter filter-name *string*
Configurable	True
Platforms	Supported on all platforms

format *(string | keyword)*

Description	Text format of syslog messages to a local output (buffer, file or console), in legacy rsyslog $template style or one of the predefined templates The default presents a date timestamp according to rfc3339. The predefined templates are the ones supported by rsyslogd.
Context	system logging console format *(string | keyword)*
Tree	format
String Length	1 to 255
Default	RSYSLOG_FileFormat
Options	• RSYSLOG_FileFormat • RSYSLOG_TraditionalFileFormat

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- RSYSLOG_DebugFormat

Configurable True

Platforms Supported on all platforms

subsystem subsystem-name *identityref*

Description Entity or entities that may produce messages to be captured

Context system logging console subsystem subsystem-name *identityref*

Tree subsystem

Configurable True

Platforms Supported on all platforms

subsystem-name *identityref*

Description Reference to an available subsystem to source messages from

Context system logging console subsystem subsystem-name *identityref*

Options

- aaa

  Messages generated by aaa_mgr (not including accounting)
- accounting

  Accounting messages generated by aaa_mgr
- acl

  Messages generated through an acl_mgr log action
- alarm

  Messages generated by alarm_mgr
- app

  Messages generated by app_mgr
- arpnd

  Messages generated by arp_nd_mgr
- bfd

  Messages generated by bfd_mgr
- bgp

  Messages generated by bgp_mgr
- bridgetable

  Messages generated by fdb_mgr
- cflowd

  Messages generated by cflowd_mgr

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- chassis
  Messages generated by chassis_mgr
- debug
  Messages generated by application debug
- dhcp
  Messages generated by dhcp_client_mgr
- ethcfm
  Messages generated by ethcfm_mgr
- evpn
  Messages generated by evpn_mgr
- fib
  Messages generated by fib_mgr
- gnmi
  Messages generated by gnmi_server
- gnoi
  Messages generated by gnoi_mgr
- gnpsi
  Messages generated by gnpsi_mgr
- gnsi
  Messages generated by gnsi_mgr
- gribi
  Messages generated by gribi_server
- grpc
  Messages generated by grpc_mgr
- igmp
  Messages generated by igmp_mgr
- isis
  Messages generated by isis_mgr
- json
  Messages generated by json_rpc_server
- lag
  Messages generated by lag_mgr
- ldp
  Messages generated by ldp_mgr
- license
  Messages generated by license_mgr

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- linux
  Messages generated by linux_mgr
- lldp
  Messages generated by lldp_mgr
- log
  Messages generated by log_mgr
- macsec
  Messages generated by macsec_mgr
- mgmt
  Messages generated by mgmt_server
- mirror
  Messages generated by mirror_mgr
- mld
  Messages generated by mld_mgr
- mpls
  Messages generated by mpls_mgr
- msdp
  Messages generated by msdp_mgr
- netconf
  Messages generated by netconf_mgr
- netinst
  Messages generated by net_inst_mgr
- oam_pm
  Messages generated by oam_pm_mgr
- ospf
  Messages generated by ospf_mgr
- p4rt
  Messages generated by p4rt_server
- pcc
  Messages generated by pcc_mgr
- pim
  Messages generated by pim_mgr
- platform
  Messages generated by chassis_mgr
- policy
  Messages generated by policy_mgr

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- pw
  Messages generated by pw_mgr
- qos
  Messages generated by qos_mgr
- rpki
  Messages generated by rpkimgr
- sath
  Messages generated by sath_mgr
- sdk
  Messages generated by sdk_mgr
- sflow
  Messages generated by sflow_sample_mgr
- staticroute
  Messages generated by static_route_mgr
- stp
  Messages generated by stp_mgr
- sync
  Messages generated by sync_mgr
- tls
  Messages generated by tls_mgr
- twamp
  Messages generated by twamp_mgr
- usrcontainer
  Messages identified as user container executed operations
- vxlan
  Messages generated by vxlan_mgr
- xdp
  Messages generated by xdp_mgr

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging console subsystem subsystem-name *identityref* priority

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Tree	priority
Configurable	True
Platforms	Supported on all platforms

match-above *keyword*

Description	At a given severity and above
Context	system logging console subsystem subsystem-name *identityref* priority match-above *keyword*
Tree	match-above
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

match-exact *keyword*

Description	Individually specified severities
Context	system logging console subsystem subsystem-name *identityref* priority match-exact *keyword*
Tree	match-exact
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True

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Platforms Supported on all platforms

event-control

Description Enter the event-control context

Allows the operator to override the SR Linux defined severity of a log event, or to suppress the event from being processed. This only applies to events generated by SR Linux subsystems; events generated by standard Linux processes are not affected.

Context system logging event-control

Tree event-control

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subsystem subsystem-name *identityref*

Description List of SR Linux subsystems that publish log events

The set of subsystems listed under state matches the subsystems that emit SR Linux defined events. Configuring a subsystem name that does not emit any SR Linux defined events is rejected.

Context system logging event-control subsystem subsystem-name *identityref*

Tree subsystem

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subsystem-name *identityref*

Description

Name of an SR Linux subsystem that produces log events

The set of accepted values is the set of identities derived from srlinux-subsystem. Only subsystems that actually emit SR Linux defined events can be configured; other identities are rejected at commit time.

Context

system logging event-control subsystem subsystem-name *identityref*

Options

- aaa

  Messages generated by aaa_mgr (not including accounting)
- accounting

  Accounting messages generated by aaa_mgr
- acl

  Messages generated through an acl_mgr log action
- alarm

  Messages generated by alarm_mgr
- app

  Messages generated by app_mgr
- arpnd

  Messages generated by arp_nd_mgr
- bfd

  Messages generated by bfd_mgr
- bgp

  Messages generated by bgp_mgr
- bridgetable

  Messages generated by fdb_mgr
- cflowd

  Messages generated by cflowd_mgr
- chassis

  Messages generated by chassis_mgr
- debug

  Messages generated by application debug
- dhcp

  Messages generated by dhcp_client_mgr
- ethcfm

  Messages generated by ethcfm_mgr
- evpn

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Messages generated by evpn_mgr

- fib

  Messages generated by fib_mgr
- gnmi

  Messages generated by gnmi_server
- gnoi

  Messages generated by gnoi_mgr
- gnpsi

  Messages generated by gnpsi_mgr
- gnsi

  Messages generated by gnsi_mgr
- gribi

  Messages generated by gribi_server
- grpc

  Messages generated by grpc_mgr
- igmp

  Messages generated by igmp_mgr
- isis

  Messages generated by isis_mgr
- json

  Messages generated by json_rpc_server
- lag

  Messages generated by lag_mgr
- ldp

  Messages generated by ldp_mgr
- license

  Messages generated by license_mgr
- linux

  Messages generated by linux_mgr
- lldp

  Messages generated by lldp_mgr
- log

  Messages generated by log_mgr
- macsec

  Messages generated by macsec_mgr
- mgmt

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Messages generated by mgmt_server

- mirror

  Messages generated by mirror_mgr
- mld

  Messages generated by mld_mgr
- mpls

  Messages generated by mpls_mgr
- msdp

  Messages generated by msdp_mgr
- netconf

  Messages generated by netconf_mgr
- netinst

  Messages generated by net_inst_mgr
- oam_pm

  Messages generated by oam_pm_mgr
- ospf

  Messages generated by ospf_mgr
- p4rt

  Messages generated by p4rt_server
- pcc

  Messages generated by pcc_mgr
- pim

  Messages generated by pim_mgr
- platform

  Messages generated by chassis_mgr
- policy

  Messages generated by policy_mgr
- pw

  Messages generated by pw_mgr
- qos

  Messages generated by qos_mgr
- rpki

  Messages generated by rpkimgr
- sath

  Messages generated by sath_mgr
- sdk

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Messages generated by sdk_mgr

- sflow

  Messages generated by sflow_sample_mgr

- staticroute

  Messages generated by static_route_mgr

- stp

  Messages generated by stp_mgr

- sync

  Messages generated by sync_mgr

- tls

  Messages generated by tls_mgr

- twamp

  Messages generated by twamp_mgr

- usrcontainer

  Messages identified as user container executed operations

- vxlan

  Messages generated by vxlan_mgr

- xdp

  Messages generated by xdp_mgr

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

event event-name *string*

Description List of named events published by the parent subsystem

The set of events listed under state matches the events defined by SR Linux for the subsystem. Configuring an event name that is not defined by SR Linux is rejected.

Context system logging event-control subsystem subsystem-name *identityref* event event-name *string*

Tree event

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

event-name *string*

Description Name of an SR Linux defined log event, limited to 128 characters.

Context system logging event-control subsystem subsystem-name *identityref* event event-name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-severity *keyword*

Description SR Linux defined severity of the event

This is the default severity used when the operator does not override the severity for this event.

Context system logging event-control subsystem subsystem-name *identityref* event event-name *string* default-severity *keyword*

Tree default-severity

Options

- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

severity *keyword*

Description Override the severity of the event

When configured, the SR Linux defined severity of the event is replaced by the configured value. When not configured, the SR Linux defined severity is used; the state view of this leaf reflects that default.

Context system logging event-control subsystem subsystem-name *identityref* event event-name *string* severity *keyword*

Tree severity

Options

- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

suppress *boolean*

Description When set to true, the log event is no longer processed

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Context	system logging event-control subsystem subsystem-name *identityref* event event-name *string* suppress *boolean*
Tree	suppress
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

file file-name *string*

Description	Log files maintained on disk, persistent across system reboots When a maximum file size is reached, the file is renamed and a maximum rotate number of them are kept.
Context	system logging file file-name *string*
Tree	file
Configurable	True
Platforms	Supported on all platforms

file-name *string*

Description	Base name of the file(s) to be stored on disk
Context	system logging file file-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

directory *string*

Description	Fully qualified path of a directory where the log file(s) shall be maintained
Context	system logging file file-name *string* directory *string*
Tree	directory
Default	/var/log/srlinux/file

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Configurable	True
Platforms	Supported on all platforms

facility facility-name *keyword*

Description	List of facilities to source messages from
Context	system logging file file-name *string* facility facility-name *keyword*
Tree	facility
Configurable	True
Platforms	Supported on all platforms

facility-name *keyword*

Description	Name of a Linux syslog facility
Context	system logging file file-name *string* facility facility-name *keyword*
Options	• all • audit • auth • authpriv • console • cron • daemon • ftp • kern • lpr • mail • news • ntp • syslog • user • uucp • local0 • local1 • local2 • local3 • local4

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- local5
- local6
- local7

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging file file-name *string* facility facility-name *keyword* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

Context system logging file file-name *string* facility facility-name *keyword* priority match-above *keyword*

Tree match-above

Options

- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

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Context	system logging file file-name *string* facility facility-name *keyword* priority match-exact *keyword*
Tree	match-exact
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

filter *reference*

Description	A set of all-matching criteria that messages must fulfill in order to be captured
Context	system logging file file-name *string* filter *reference*
Tree	filter
Reference	system logging filter filter-name *string*
Configurable	True
Platforms	Supported on all platforms

format *(string | keyword)*

Description	Text format of syslog messages to a local output (buffer, file or console), in legacy rsyslog $template style or one of the predefined templates The default presents a date timestamp according to rfc3339. The predefined templates are the ones supported by rsyslogd.
Context	system logging file file-name *string* format *(string | keyword)*
Tree	format
String Length	1 to 255
Default	RSYSLOG_FileFormat
Options	• RSYSLOG_FileFormat • RSYSLOG_TraditionalFileFormat

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- RSYSLOG_DebugFormat

Configurable True

Platforms Supported on all platforms

rotate *number*

Description Number of files to keep in rotation when a maximum file size is reached

Context system logging file file-name *string* rotate *number*

Tree rotate

Default 4

Configurable True

Platforms Supported on all platforms

rotations *number*

Description Number of file rotations occurred

Context system logging file file-name *string* rotations *number*

Tree rotations

Default 0

Configurable False

Platforms Supported on all platforms

size *string*

Description Number of bytes an individual output file cannot exceed

The field allows the 'K, M, or G' suffixes as shorthand. When reaching that size, a rotation happens and subsequent data is stored in a new file with the same base name.

Context system logging file file-name *string* size *string*

Tree size

Default 10M

Configurable True

Platforms Supported on all platforms

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subsystem subsystem-name *identityref*

Description	Entity or entities that may produce messages to be captured
Context	system logging file file-name *string* subsystem subsystem-name *identityref*
Tree	subsystem
Configurable	True
Platforms	Supported on all platforms

subsystem-name *identityref*

Description	Reference to an available subsystem to source messages from
Context	system logging file file-name *string* subsystem subsystem-name *identityref*
Options	• aaa Messages generated by aaa_mgr (not including accounting) • accounting Accounting messages generated by aaa_mgr • acl Messages generated through an acl_mgr log action • alarm Messages generated by alarm_mgr • app Messages generated by app_mgr • arpnd Messages generated by arp_nd_mgr • bfd Messages generated by bfd_mgr • bgp Messages generated by bgp_mgr • bridgetable Messages generated by fdb_mgr • cflowd Messages generated by cflowd_mgr • chassis Messages generated by chassis_mgr • debug Messages generated by application debug

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- dhcp
  Messages generated by dhcp_client_mgr
- ethcfm
  Messages generated by ethcfm_mgr
- evpn
  Messages generated by evpn_mgr
- fib
  Messages generated by fib_mgr
- gnmi
  Messages generated by gnmi_server
- gnoi
  Messages generated by gnoi_mgr
- gnpsi
  Messages generated by gnpsi_mgr
- gnsi
  Messages generated by gnsi_mgr
- gribi
  Messages generated by gribi_server
- grpc
  Messages generated by grpc_mgr
- igmp
  Messages generated by igmp_mgr
- isis
  Messages generated by isis_mgr
- json
  Messages generated by json_rpc_server
- lag
  Messages generated by lag_mgr
- ldp
  Messages generated by ldp_mgr
- license
  Messages generated by license_mgr
- linux
  Messages generated by linux_mgr
- lldp
  Messages generated by lldp_mgr

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- log
  Messages generated by log_mgr
- macsec
  Messages generated by macsec_mgr
- mgmt
  Messages generated by mgmt_server
- mirror
  Messages generated by mirror_mgr
- mld
  Messages generated by mld_mgr
- mpls
  Messages generated by mpls_mgr
- msdp
  Messages generated by msdp_mgr
- netconf
  Messages generated by netconf_mgr
- netinst
  Messages generated by net_inst_mgr
- oam_pm
  Messages generated by oam_pm_mgr
- ospf
  Messages generated by ospf_mgr
- p4rt
  Messages generated by p4rt_server
- pcc
  Messages generated by pcc_mgr
- pim
  Messages generated by pim_mgr
- platform
  Messages generated by chassis_mgr
- policy
  Messages generated by policy_mgr
- pw
  Messages generated by pw_mgr
- qos
  Messages generated by qos_mgr

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- rpki
  Messages generated by rpkimgr
- sath
  Messages generated by sath_mgr
- sdk
  Messages generated by sdk_mgr
- sflow
  Messages generated by sflow_sample_mgr
- staticroute
  Messages generated by static_route_mgr
- stp
  Messages generated by stp_mgr
- sync
  Messages generated by sync_mgr
- tls
  Messages generated by tls_mgr
- twamp
  Messages generated by twamp_mgr
- usrcontainer
  Messages identified as user container executed operations
- vxlan
  Messages generated by vxlan_mgr
- xdp
  Messages generated by xdp_mgr

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging file file-name *string* subsystem subsystem-name *identityref* priority

Tree priority

Configurable True

Platforms Supported on all platforms

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match-above *keyword*

Description At a given severity and above

Context system logging file file-name *string* subsystem subsystem-name *identityref* priority match-above *keyword*

Tree match-above

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

Context system logging file file-name *string* subsystem subsystem-name *identityref* priority match-exact *keyword*

Tree match-exact

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

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filter filter-name *string*

Description	Describes a set of critieria that captured messages are required to fulfill
Context	system logging filter filter-name *string*
Tree	filter
Configurable	True
Platforms	Supported on all platforms

filter-name *string*

Description	Name of the filter
Context	system logging filter filter-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

composition-operator *keyword*

Description	Logical operation between filters
Context	system logging filter filter-name *string* composition-operator *keyword*
Tree	composition-operator
Default	or
Options	• or • and
Configurable	True
Platforms	Supported on all platforms

contains *string*

Description	Text to find in the MSG property of messages to capture from the stream This is slower than prefix.
Context	system logging filter filter-name *string* contains *string*
Tree	contains
Configurable	True
Platforms	Supported on all platforms

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facility facility-name *keyword*

Description	List of facilities to source messages from
Context	system logging filter filter-name *string* facility facility-name *keyword*
Tree	facility
Configurable	True
Platforms	Supported on all platforms

facility-name *keyword*

Description	Name of a Linux syslog facility
Context	system logging filter filter-name *string* facility facility-name *keyword*
Options	• all • audit • auth • authpriv • console • cron • daemon • ftp • kern • lpr • mail • news • ntp • syslog • user • uucp • local0 • local1 • local2 • local3 • local4 • local5 • local6 • local7

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Configurable	True
Platforms	Supported on all platforms

priority

Description	Enter the priority context Narrows the capture to a given severity, a range or a specific set of severities
Context	system logging filter filter-name *string* facility facility-name *keyword* priority
Tree	priority
Configurable	True
Platforms	Supported on all platforms

match-above *keyword*

Description	At a given severity and above
Context	system logging filter filter-name *string* facility facility-name *keyword* priority match-above *keyword*
Tree	match-above
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

match-exact *keyword*

Description	Individually specified severities
Context	system logging filter filter-name *string* facility facility-name *keyword* priority match-exact *keyword*
Tree	match-exact
Options	• emergency

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- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

not-contains *string*

Description Text to not find in the MSG property of messages to capture from the stream This is slower than prefix.

Context system logging filter filter-name *string* not-contains *string*

Tree not-contains

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-prefix *string*

Description Text to be not present at the beginning of the MSG property of a message This is a fast lookup.

Context system logging filter filter-name *string* not-prefix *string*

Tree not-prefix

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-regex *string*

Description	Extended regular expression to not have in the MSG property of messages
Context	system logging filter filter-name *string* not-regex *string*
Tree	not-regex
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *string*

Description	Text to be present at the beginning of the MSG property of a message This is a fast lookup.
Context	system logging filter filter-name *string* prefix *string*
Tree	prefix
Configurable	True
Platforms	Supported on all platforms

regex *string*

Description	Extended regular expression to search in the MSG property of messages
Context	system logging filter filter-name *string* regex *string*
Tree	regex
Configurable	True
Platforms	Supported on all platforms

subsystem subsystem-name *identityref*

Description	Entity or entities that may produce messages to be captured
Context	system logging filter filter-name *string* subsystem subsystem-name *identityref*
Tree	subsystem

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Configurable True

Platforms Supported on all platforms

subsystem-name *identityref*

Description Reference to an available subsystem to source messages from

Context system logging filter filter-name *string* subsystem subsystem-name *identityref*

Options

- aaa

  Messages generated by aaa_mgr (not including accounting)
- accounting

  Accounting messages generated by aaa_mgr
- acl

  Messages generated through an acl_mgr log action
- alarm

  Messages generated by alarm_mgr
- app

  Messages generated by app_mgr
- arpnd

  Messages generated by arp_nd_mgr
- bfd

  Messages generated by bfd_mgr
- bgp

  Messages generated by bgp_mgr
- bridgetable

  Messages generated by fdb_mgr
- cflowd

  Messages generated by cflowd_mgr
- chassis

  Messages generated by chassis_mgr
- debug

  Messages generated by application debug
- dhcp

  Messages generated by dhcp_client_mgr
- ethcfm

  Messages generated by ethcfm_mgr

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- evpn
  Messages generated by evpn_mgr
- fib
  Messages generated by fib_mgr
- gnmi
  Messages generated by gnmi_server
- gnoi
  Messages generated by gnoi_mgr
- gnpsi
  Messages generated by gnpsi_mgr
- gnsi
  Messages generated by gnsi_mgr
- gribi
  Messages generated by gribi_server
- grpc
  Messages generated by grpc_mgr
- igmp
  Messages generated by igmp_mgr
- isis
  Messages generated by isis_mgr
- json
  Messages generated by json_rpc_server
- lag
  Messages generated by lag_mgr
- ldp
  Messages generated by ldp_mgr
- license
  Messages generated by license_mgr
- linux
  Messages generated by linux_mgr
- lldp
  Messages generated by lldp_mgr
- log
  Messages generated by log_mgr
- macsec
  Messages generated by macsec_mgr

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- mgmt
  Messages generated by mgmt_server
- mirror
  Messages generated by mirror_mgr
- mld
  Messages generated by mld_mgr
- mpls
  Messages generated by mpls_mgr
- msdp
  Messages generated by msdp_mgr
- netconf
  Messages generated by netconf_mgr
- netinst
  Messages generated by net_inst_mgr
- oam_pm
  Messages generated by oam_pm_mgr
- ospf
  Messages generated by ospf_mgr
- p4rt
  Messages generated by p4rt_server
- pcc
  Messages generated by pcc_mgr
- pim
  Messages generated by pim_mgr
- platform
  Messages generated by chassis_mgr
- policy
  Messages generated by policy_mgr
- pw
  Messages generated by pw_mgr
- qos
  Messages generated by qos_mgr
- rpki
  Messages generated by rpkimgr
- sath
  Messages generated by sath_mgr

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- sdk
  Messages generated by sdk_mgr
- sflow
  Messages generated by sflow_sample_mgr
- staticroute
  Messages generated by static_route_mgr
- stp
  Messages generated by stp_mgr
- sync
  Messages generated by sync_mgr
- tls
  Messages generated by tls_mgr
- twamp
  Messages generated by twamp_mgr
- usrcontainer
  Messages identified as user container executed operations
- vxlan
  Messages generated by vxlan_mgr
- xdp
  Messages generated by xdp_mgr

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging filter filter-name *string* subsystem subsystem-name *identityref* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

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Context	system logging filter filter-name *string* subsystem subsystem-name *identityref* priority match-above *keyword*
Tree	match-above
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

match-exact *keyword*

Description	Individually specified severities
Context	system logging filter filter-name *string* subsystem subsystem-name *identityref* priority match-exact *keyword*
Tree	match-exact
Options	• emergency • alert • critical • error • warning • notice • informational • debug
Configurable	True
Platforms	Supported on all platforms

tag *string*

Description	Text to be searched in the SYSLOGTAG property of messages Usually a program name or part of it.
Context	system logging filter filter-name *string* tag *string*

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Tree	tag
Configurable	True
Platforms	Supported on all platforms

network-instance *reference*

Description	Reference to a configured network-instance to run rsyslogd in This network-instance will be used as a source for requests to remote syslog servers.
Context	system logging network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

remote-server host *(ipv4 | ipv6-ietf | domain-name)*

Description	List of output remote syslog servers
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)*
Tree	remote-server
Configurable	True
Platforms	Supported on all platforms

host *(ipv4 | ipv6-ietf | domain-name)*

Description	Domain or IP address of a remote syslog server destination
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)*
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms

facility facility-name *keyword*

Description	List of facilities to source messages from
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* facility facility-name *keyword*

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Tree facility

Configurable True

Platforms Supported on all platforms

facility-name *keyword*

Description Name of a Linux syslog facility

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* facility facility-name *keyword*

Options

- all
- audit
- auth
- authpriv
- console
- cron
- daemon
- ftp
- kern
- lpr
- mail
- news
- ntp
- syslog
- user
- uucp
- local0
- local1
- local2
- local3
- local4
- local5
- local6
- local7

Configurable True

Platforms Supported on all platforms

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priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* facility facility-name *keyword* priority

Tree priority

Configurable True

Platforms Supported on all platforms

match-above *keyword*

Description At a given severity and above

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* facility facility-name *keyword* priority match-above *keyword*

Tree match-above

Options

- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* facility facility-name *keyword* priority match-exact *keyword*

Tree match-exact

Options

- emergency
- alert
- critical

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- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

filter *reference*

Description A set of all-matching criteria that messages must fulfill in order to be captured

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* filter *reference*

Tree filter

Reference system logging filter filter-name *string*

Configurable True

Platforms Supported on all platforms

format *(string | keyword)*

Description Text format of syslog messages to a remote server, in legacy rsyslog $template style or one of the predefined templates

The default presents a date timestamp according to rfc3339. The predefined templates are the ones supported by rsyslogd.

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* format *(string | keyword)*

Tree format

String Length 1 to 255

Default RSYSLOG_SyslogProtocol23Format

Options

- RSYSLOG_ForwardFormat
- RSYSLOG_SyslogProtocol23Format
- RSYSLOG_TraditionalForwardFormat

Configurable True

Platforms Supported on all platforms

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network-instance *reference*

Description	Reference to a configured network-instance to run rsyslogd in This network-instance will be used as a source for requests to remote syslog servers.
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

remote-port *number*

Description	Transport port for syslog to use for messages sent to a remote server By default, UDP/TCP uses port 514 and TLS uses port 6514.
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* remote-port *number*
Tree	remote-port
Range	0 to 65535
Configurable	True
Platforms	Supported on all platforms

source-address *(ipv4-address \| ipv6-address)*

Description	Source address for syslog to use for messages sent to a remote server If no source address is provided, then packets will be sent to the remote server using the source address indicated by the routing table.
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

subsystem subsystem-name *identityref*

Description	Entity or entities that may produce messages to be captured

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Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* subsystem subsystem-name *identityref*
Tree	subsystem
Configurable	True
Platforms	Supported on all platforms

subsystem-name *identityref*

Description	Reference to an available subsystem to source messages from
Context	system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* subsystem subsystem-name *identityref*
Options	• aaa Messages generated by aaa_mgr (not including accounting) • accounting Accounting messages generated by aaa_mgr • acl Messages generated through an acl_mgr log action • alarm Messages generated by alarm_mgr • app Messages generated by app_mgr • arpnd Messages generated by arp_nd_mgr • bfd Messages generated by bfd_mgr • bgp Messages generated by bgp_mgr • bridgetable Messages generated by fdb_mgr • cflowd Messages generated by cflowd_mgr • chassis Messages generated by chassis_mgr • debug Messages generated by application debug • dhcp Messages generated by dhcp_client_mgr

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- ethcfm
  Messages generated by ethcfm_mgr
- evpn
  Messages generated by evpn_mgr
- fib
  Messages generated by fib_mgr
- gnmi
  Messages generated by gnmi_server
- gnoi
  Messages generated by gnoi_mgr
- gnpsi
  Messages generated by gnpsi_mgr
- gnsi
  Messages generated by gnsi_mgr
- gribi
  Messages generated by gribi_server
- grpc
  Messages generated by grpc_mgr
- igmp
  Messages generated by igmp_mgr
- isis
  Messages generated by isis_mgr
- json
  Messages generated by json_rpc_server
- lag
  Messages generated by lag_mgr
- ldp
  Messages generated by ldp_mgr
- license
  Messages generated by license_mgr
- linux
  Messages generated by linux_mgr
- lldp
  Messages generated by lldp_mgr
- log
  Messages generated by log_mgr

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- macsec
  Messages generated by macsec_mgr
- mgmt
  Messages generated by mgmt_server
- mirror
  Messages generated by mirror_mgr
- mld
  Messages generated by mld_mgr
- mpls
  Messages generated by mpls_mgr
- msdp
  Messages generated by msdp_mgr
- netconf
  Messages generated by netconf_mgr
- netinst
  Messages generated by net_inst_mgr
- oam_pm
  Messages generated by oam_pm_mgr
- ospf
  Messages generated by ospf_mgr
- p4rt
  Messages generated by p4rt_server
- pcc
  Messages generated by pcc_mgr
- pim
  Messages generated by pim_mgr
- platform
  Messages generated by chassis_mgr
- policy
  Messages generated by policy_mgr
- pw
  Messages generated by pw_mgr
- qos
  Messages generated by qos_mgr
- rpki
  Messages generated by rpkimgr

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- sath

  Messages generated by sath_mgr
- sdk

  Messages generated by sdk_mgr
- sflow

  Messages generated by sflow_sample_mgr
- staticroute

  Messages generated by static_route_mgr
- stp

  Messages generated by stp_mgr
- sync

  Messages generated by sync_mgr
- tls

  Messages generated by tls_mgr
- twamp

  Messages generated by twamp_mgr
- usrcontainer

  Messages identified as user container executed operations
- vxlan

  Messages generated by vxlan_mgr
- xdp

  Messages generated by xdp_mgr

Configurable True

Platforms Supported on all platforms

priority

Description Enter the priority context

Narrows the capture to a given severity, a range or a specific set of severities

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* subsystem subsystem-name *identityref* priority

Tree priority

Configurable True

Platforms Supported on all platforms

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match-above *keyword*

Description At a given severity and above

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* subsystem subsystem-name *identityref* priority match-above *keyword*

Tree match-above

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

match-exact *keyword*

Description Individually specified severities

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* subsystem subsystem-name *identityref* priority match-exact *keyword*

Tree match-exact

Options
- emergency
- alert
- critical
- error
- warning
- notice
- informational
- debug

Configurable True

Platforms Supported on all platforms

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tls-profile *reference*

Description Reference to a TLS profile to use for the transport of syslog messages

If none is specified, then TLS is not used.

The cipher-list, tls-version and tls13 cryptographic settings of the TLS profile are applied to the session established with the remote server. Any of those left at its default value is negotiated using the defaults of the TLS library. Using the __default__ TLS profile is not supported as there is no trust-anchor configured.

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* tls-profile *reference*

Tree tls-profile

Reference system tls profile name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport *keyword*

Description Transport protocol for syslog to use for messages sent to a remote server

Context system logging remote-server host *(ipv4 | ipv6-ietf | domain-name)* transport *keyword*

Tree transport

Default udp

Options

- udp
- tcp
- tls

Configurable True

Platforms Supported on all platforms

subsystem-facility *keyword*

Description Linux facility that internal application subsystems will use

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Context system logging subsystem-facility *keyword*

Tree subsystem-facility

Default local6

Options

- all
- audit
- auth
- authpriv
- console
- cron
- daemon
- ftp
- kern
- lpr
- mail
- news
- ntp
- syslog
- user
- uucp
- local0
- local1
- local2
- local3
- local4
- local5
- local6
- local7
- auth
- authpriv
- cron
- daemon
- ftp
- kern
- lpr
- mail
- news

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- ntp
- syslog
- user
- uucp
- local0
- local1
- local2
- local3
- local4
- local5
- local6
- local7

Configurable True

Platforms Supported on all platforms

use-fqdn *boolean*

Description Use the FQDN instead of only the hostname for logging messages

Context system logging use-fqdn *boolean*

Tree use-fqdn

Default false

Configurable True

Platforms Supported on all platforms except IMGMT

maintenance

Description Top-level container for Maintenance Mode configuration

Context system maintenance

Tree maintenance

Configurable True

Platforms Supported on all platforms

group name *string*

Description List of user-configured maintenance groups

Context system maintenance group name *string*

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Tree	group
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the maintenance group.
Context	system maintenance group name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

maintenance-mode

Description	Enter the maintenance-mode context Container with options for activating and deactivating maintenance mode for this group
Context	system maintenance group name *string* maintenance-mode
Tree	maintenance-mode
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Enable or disable maintenance mode for this group The enable setting is blocked if there is another maintenance group with at least one BGP session in its scope that overlaps with this maintenance group and that other maintenance group is currently in maintenance mode. While a maintenance group is in maintenance mode it is not possible to modify the BGP configuration of its members.
Context	system maintenance group name *string* maintenance-mode admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True

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Platforms	Supported on all platforms

maintenance-profile *reference*

Description	Leaf reference to /system/maintenance/profile/name
Context	system maintenance group name *string* maintenance-profile *reference*
Tree	maintenance-profile
Reference	system maintenance profile name *string*
Configurable	True
Platforms	Supported on all platforms

members

Description	Enter the members context Container for specifying the members of the maintenance group - i.e. the components that will eventually be taken out of service for repair or replacement.
Context	system maintenance group name *string* members
Tree	members
Configurable	True
Platforms	Supported on all platforms

bgp

Description	Enter the bgp context Container for specifying the BGP members of the maintenance group
Context	system maintenance group name *string* members bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms

network-instance name *reference*

Description	List of network instances with one or more peers to be placed in maintenance mode
Context	system maintenance group name *string* members bgp network-instance name *reference*

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Tree	network-instance
Configurable	True
Platforms	Supported on all platforms

name *reference*

Description	A unique name identifying the network instance
Context	system maintenance group name *string* members bgp network-instance name *reference*
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms

neighbor *reference*

Description	List of BGP neighbors that belong to the network instance and that should be part of the maintenance group It is not necessary to list neighbors that are members of peer-groups that are already listed. If this list is empty and so is the group list, then the system interprets the meaning as ALL static and dynamic sessions belonging to the specified network-instance.
Context	system maintenance group name *string* members bgp network-instance name *reference* neighbor *reference*
Tree	neighbor
Reference	network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Configurable	True
Platforms	Supported on all platforms

peer-group *reference*

Description	List of BGP peer groups that belong to the network instance and that should be part of the maintenance group If this list is empty and so is the neighbor list, then the system interprets the meaning as ALL static and dynamic sessions belonging to the specified network-instance.
Context	system maintenance group name *string* members bgp network-instance name *reference* peer-group *reference*

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Tree	peer-group
Reference	network-instance name *string* protocols bgp group group-name *string*
Configurable	True
Platforms	Supported on all platforms

profile name *string*

Description	Enter the profile list instance
Context	system maintenance profile name *string*
Tree	profile
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the maintenance profile
Context	system maintenance profile name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

bgp

Description	Enter the bgp context Container for BGP policies used to achieve traffic draining
Context	system maintenance profile name *string* bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms

export-policy *reference*

Description	A reference to the pre-configured routing policy to apply as an additional/final export policy on BGP sessions in the maintenance group
Context	system maintenance profile name *string* bgp export-policy *reference*
Tree	export-policy

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Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

import-policy *reference*

Description	A reference to the pre-configured routing policy to apply as an additional/final import policy on BGP sessions in the maintenance group
Context	system maintenance profile name *string* bgp import-policy *reference*
Tree	import-policy
Reference	routing-policy policy name *string*
Configurable	True
Platforms	Supported on all platforms

management

Description	Enter the management context Enclosing container for options relating to management server
Context	system management
Tree	management
Configurable	True
Platforms	Supported on all platforms except IMGMT

openconfig

Description	Top-level container for options relating to OpenConfig
Context	system management openconfig
Tree	openconfig
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Enable or disable the OpenConfig management server

This will disable OpenConfig throughout the system, and bring any gRPC servers that use it operationally down.

Context system management openconfig admin-state *keyword*

Tree admin-state

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Indicates the operational state of the OpenConfig management server

Context system management openconfig oper-state *keyword*

Tree oper-state

Options
- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed

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- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mirroring

Description Top level container for configuration and operational state for mirroring

Context system mirroring

Tree mirroring

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mirroring-instance name *string*

Description	Mirroring instances configured on the local system
Context	system mirroring mirroring-instance name *string*
Tree	mirroring-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	8

name *string*

Description	A unique name identifying the mirroring instance
Context	system mirroring mirroring-instance name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	This leaf contains the configured, desired state of the mirroring instance.
Context	system mirroring mirroring-instance name *string* admin-state *keyword*
Tree	admin-state
Default	enable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description A user-entered description of this mirroring instance.

Context system mirroring mirroring-instance name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mirror-destination

Description Enter the mirror-destination context

Configure mirror destination

Context system mirroring mirroring-instance name *string* mirror-destination

Tree mirror-destination

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local *string*

Description subinterface of type local-mirror-dest used as local mirror destination

Context system mirroring mirroring-instance name *string* mirror-destination local *string*

Tree local

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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pcap

Description Enter the pcap context

Capture mirror packets as pcap

Context system mirroring mirroring-instance name *string* mirror-destination pcap

Tree pcap

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capture-type *identityref*

Description Capture packets for the capture-type into the tshark app

Context system mirroring mirroring-instance name *string* mirror-destination pcap capture-type *identityref*

Tree capture-type

Options

- capture-interface

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote

Description Enable the remote context

Context system mirroring mirroring-instance name *string* mirror-destination remote

Tree remote

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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encap *keyword*

Description Encapsulation to use for this mirror destination

Context system mirroring mirroring-instance name *string* mirror-destination remote encap *keyword*

Tree encap

Options

- l2ogre
- l3ogre
- mpls

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description network instance to intitiate remote mirror tunnel

Context system mirroring mirroring-instance name *string* mirror-destination remote network-instance *reference*

Tree network-instance

Reference network-instance name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel-end-points

Description Enter the tunnel-end-points context

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points

Tree tunnel-end-points

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3,

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7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description This leaf contains the configured, desired state of the remote mirror tunnel

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-address *(ipv4-address | ipv6-address)*

Description remote mirror tunnel destination endpoint ip-address

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points destination-address *(ipv4-address | ipv6-address)*

Tree destination-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the mirror-destination being operational down. When the reason is not applicable, it is due to the mirroring-instance being shutdown or the mirror-destination is operational up.

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points oper-down-reason *keyword*

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Tree oper-down-reason

Options
- destination-nexthop-not-resolved
- destination-tunnel-nexthop-resolve-failed
- destination-nexthop-group-id-failed
- not-applicable

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description This leaf contains the operational state of the remote mirror tunnel

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points oper-state *keyword*

Tree oper-state

Options
- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

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Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-tunnel-id *number*

Description The owner-assigned tunnel table index value that identifies the tunnel used by mirror-destination.

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points operational-tunnel-id *number*

Tree operational-tunnel-id

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-tunnel-type *identityref*

Description The tunnel that is being used for mirroring traffic.

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points operational-tunnel-type *identityref*

Tree operational-tunnel-type

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Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3
- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description remote mirror tunnel source endpoint ip-address

Context system mirroring mirroring-instance name *string* mirror-destination remote tunnel-end-points source-address *(ipv4-address | ipv6-address)*

Tree source-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3,

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7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system mirroring mirroring-instance name *string* mirror-destination statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-mirrored-octets *number*

Description The number of egress mirrored octets

Context system mirroring mirroring-instance name *string* mirror-destination statistics egress-mirrored-octets *number*

Tree egress-mirrored-octets

Default 0

Units bytes

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-mirrored-packets *number*

Description The number of egress mirrored packets

Context system mirroring mirroring-instance name *string* mirror-destination statistics egress-mirrored-packets *number*

Tree egress-mirrored-packets

Default 0

Units packets

Configurable False

Platforms 7220 IXR-D4, 7220 IXR-D5

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ingress-mirrored-octets *number*

Description	The number of ingress mirrored octets
Context	system mirroring mirroring-instance name *string* mirror-destination statistics ingress-mirrored-octets *number*
Tree	ingress-mirrored-octets
Default	0
Units	bytes
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress-mirrored-packets *number*

Description	The number of ingress mirrored packets
Context	system mirroring mirroring-instance name *string* mirror-destination statistics ingress-mirrored-packets *number*
Tree	ingress-mirrored-packets
Default	0
Units	packets
Configurable	False
Platforms	7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mirror-source

Description	Enter the mirror-source context Configure mirror source(s)
Context	system mirroring mirroring-instance name *string* mirror-source
Tree	mirror-source
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp,

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7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

acl

Description Enter the acl context

Context system mirroring mirroring-instance name *string* mirror-source acl

Tree acl

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

acl-filter name *reference* type *reference*

Description List IPv4, IPv6 ACL filters

Context system mirroring mirroring-instance name *string* mirror-source acl acl-filter name *reference* type *reference*

Tree acl-filter

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description Enter the name context

Context system mirroring mirroring-instance name *string* mirror-source acl acl-filter name *reference* type *reference*

Reference acl acl-filter name *string* type *keyword*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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type *reference*

Description	Reference to the ACL filter policy type
Context	system mirroring mirroring-instance name *string* mirror-source acl acl-filter name *reference* type *reference*
Reference	acl acl-filter name *string* type *keyword*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry sequence-id *reference*

Description	Add a list entry for entry
Context	system mirroring mirroring-instance name *string* mirror-source acl acl-filter name *reference* type *reference* entry sequence-id *reference*
Tree	entry
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sequence-id *reference*

Description	Enter the sequence-id context
Context	system mirroring mirroring-instance name *string* mirror-source acl acl-filter name *reference* type *reference* entry sequence-id *reference*
Reference	acl acl-filter name *string* type *keyword* entry sequence-id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface name *string*

Description List of interfaces used as mirror source

Context system mirroring mirroring-instance name *string* mirror-source interface name *string*

Tree interface

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Enter the name context

Context system mirroring mirroring-instance name *string* mirror-source interface name *string*

String Length 3 to 22

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of traffic to be mirrored

Context system mirroring mirroring-instance name *string* mirror-source interface name *string* direction *keyword*

Tree direction

Default egress-only

Options

- ingress-only
- egress-only
- ingress-egress

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3,

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7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface name *string*

Description List of subinterfaces used as mirror source

Context system mirroring mirroring-instance name *string* mirror-source subinterface name *string*

Tree subinterface

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Enter the name context

Context system mirroring mirroring-instance name *string* mirror-source subinterface name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description The direction of traffic to be mirrored

Context system mirroring mirroring-instance name *string* mirror-source subinterface name *string* direction *keyword*

Tree direction

Default egress-only

Options

- ingress-only
- egress-only
- ingress-egress

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Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the mirror subinterface being operationally down. The not-applicable reason is when mirror instance is shutdown or the mirror source is operational

Context system mirroring mirroring-instance name *string* mirror-source subinterface name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- mirror-source-ingress-table-full
- mirror-source-egress-table-full
- not-applicable

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Indicates the operational state of the mirror subinterface

Context system mirroring mirroring-instance name *string* mirror-source subinterface name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory

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- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the mirroring instance being operational down

Context system mirroring mirroring-instance name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- mirror-inst-admin-down
- no-mirror-source

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- local-mirror-subif-down
- remote-mirror-dst-unreachable

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description This leaf contains the operational state of the mirroring instance.

Context system mirroring mirroring-instance name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

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Component or process is currently warm rebooting

This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enter the mpls context

Container for system wide MPLS label management

Context system mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-ranges

Description Enter the label-ranges context

Container for managing MPLS label blocks

Context system mpls label-ranges

Tree label-ranges

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dynamic name *string*

Description List of dynamic label blocks

When a client application binds its operation to a dynamic label block that client application is expected to just ask for the next available label within the dynamic label block.

At this time a dynamic label block cannot be shared by multiple different clients/protocols. Each protocol needing dynamic labels must have its own label block.

Context system mpls label-ranges dynamic name *string*

Tree dynamic

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the dynamic label block

Context system mpls label-ranges dynamic name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocated-labels *number*

Description The number of labels that are currently used in this block

Context system mpls label-ranges dynamic name *string* allocated-labels *number*

Tree allocated-labels

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-label *number*

Description The ending label value of the label block.

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When the status is not-ready or updating, the state value may be different from the configured value

Context system mpls label-ranges dynamic name *string* end-label *number*

Tree end-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-labels *number*

Description The number of labels that are currently available and free in this block.

When the status is not-ready or updating, the state value may be different from the configured value

Context system mpls label-ranges dynamic name *string* free-labels *number*

Tree free-labels

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-label *number*

Description The starting label value of the label block.

When the status is not-ready or updating, the state value may be different from the configured value

Context system mpls label-ranges dynamic name *string* start-label *number*

Tree start-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

status *keyword*

Description The status of the MPLS label block

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Context system mpls label-ranges dynamic name *string* status *keyword*

Tree status

Options

- ready

  The label block is ready to use.
- not-ready

  The label block is not ready to use.
- delete-pending

  The label block is in the process of being deleted.
- updating

  The label block is available to use but the new limits do not apply yet.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user index *number*

Description The list of protocols that are using this label block. If the block is not shared there will only be 1 user

Context system mpls label-ranges dynamic name *string* user index *number*

Tree user

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index number used to enumerate the clients

Context system mpls label-ranges dynamic name *string* user index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

owner *identityref*

Description The protocol or service associated with the client

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Context system mpls label-ranges dynamic name *string* user index *number* owner *identityref*

Tree owner

Options

- bgp

  The BGP/MP-BGP protocol carrying labels.
- ldp

  The label distribution protocol (LDP).
- sr-isis

  The IS-IS protocol with segment routing extensions
- sr-ospf

  The OSPFv2 protocol with segment routing extensions
- sr-ospfv3

  The OSPFv3 protocol with segment routing extensions
- sr-policy

  A pseudo protocol representing SR policies
- static-mpls

  A pseudo protocol representing static MPLS routes
- evpn

  The BGP/EVPN protocol carrying labels.
- network-instance

  The module allocating labels for bgp based vpn/evpn services

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

static name *string*

Description List of static label blocks

When a client application binds its operation to a static label block that client application is expected to specify the exact label value it wants to use every time it requests a label within the static label block.

Context system mpls label-ranges static name *string*

Tree static

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The name of the static label block
Context	system mpls label-ranges static name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allocated-labels *number*

Description	The number of labels that are currently used in this block
Context	system mpls label-ranges static name *string* allocated-labels *number*
Tree	allocated-labels
Configurable	False
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-label *number*

Description	The ending label value of the label block. When the status is not-ready or updating, the state value may be different from the configured value
Context	system mpls label-ranges static name *string* end-label *number*
Tree	end-label
Range	16 to 1048575
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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free-labels *number*

Description The number of labels that are currently available and free in this block.

When the status is not-ready or updating, the state value may be different from the configured value

Context system mpls label-ranges static name *string* free-labels *number*

Tree free-labels

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

shared *boolean*

Description When set to true, the label block can be shared by multiple protoccols. When set to false, the label block is dedicated to one protocol.

Context system mpls label-ranges static name *string* shared *boolean*

Tree shared

Default true

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-label *number*

Description The starting label value of the label block.

When the status is not-ready or updating, the state value may be different from the configured value

Context system mpls label-ranges static name *string* start-label *number*

Tree start-label

Range 16 to 1048575

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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status *keyword*

Description The status of the MPLS label block

Context system mpls label-ranges static name *string* status *keyword*

Tree status

Options

- ready

  The label block is ready to use.
- not-ready

  The label block is not ready to use.
- delete-pending

  The label block is in the process of being deleted.
- updating

  The label block is available to use but the new limits do not apply yet.

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user index *number*

Description The list of protocols that are using this label block. If the block is not shared there will only be 1 user

Context system mpls label-ranges static name *string* user index *number*

Tree user

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description Index number used to enumerate the clients

Context system mpls label-ranges static name *string* user index *number*

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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owner *identityref*

Description The protocol or service associated with the client

Context system mpls label-ranges static name *string* user index *number* owner *identityref*

Tree owner

Options

- bgp

  The BGP/MP-BGP protocol carrying labels.
- ldp

  The label distribution protocol (LDP).
- sr-isis

  The IS-IS protocol with segment routing extensions
- sr-ospf

  The OSPFv2 protocol with segment routing extensions
- sr-ospfv3

  The OSPFv3 protocol with segment routing extensions
- sr-policy

  A pseudo protocol representing SR policies
- static-mpls

  A pseudo protocol representing static MPLS routes
- evpn

  The BGP/EVPN protocol carrying labels.
- network-instance

  The module allocating labels for bgp based vpn/evpn services

Configurable False

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

services

Description Enter the services context

Container for system wide Services MPLS label management

Context system mpls services

Tree services

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn

Description	Container for system wide Services EVPN MPLS label management
Context	system mpls services evpn
Tree	evpn
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-label-block *reference*

Description	The dynamic label block used by EVPN in the system network-instance The label block is used by all EVPN services that require MPLS labels in the system network-instance. For example, EVPN-MPLS multi-homing (ESI label).
Context	system mpls services evpn dynamic-label-block *reference*
Tree	dynamic-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance

Description	Container for system wide Service Network Instance MPLS label management
Context	system mpls services network-instance
Tree	network-instance
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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dynamic-evpn-inclusive-multicast-label-block *reference*

Description	Reference to the dynamic evpn inclusive multicast label block used by EVPN MAC-VRFs The label block is used by EVPN-MPLS MAC-VRF services for the allocation of labels that are advertised in EVPN Inclusive Multicast Ethernet Tag routes and that identify incoming layer-2 Broadcast, Unknown unicast and Multicast traffic.
Context	system mpls services network-instance dynamic-evpn-inclusive-multicast-label-block *reference*
Tree	dynamic-evpn-inclusive-multicast-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dynamic-label-block *reference*

Description	Reference to the dynamic label block used by network-instances The label block is used by all the applications that require MPLS label allocation in a network-instance. For example, EVPN-MPLS services, IP-VPN or Pseudowires.
Context	system mpls services network-instance dynamic-label-block *reference*
Tree	dynamic-label-block
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

dynamic-label-blocks

Description	Enter the dynamic-label-blocks context Container for multiple dynamic label blocks for MPLS services
Context	system mpls services network-instance dynamic-label-blocks
Tree	dynamic-label-blocks

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet *reference*

Description	Reference to the dynamic label block used by layer-2 network-instances (VPWS and MAC-VRF) The label block is used by all the applications that require MPLS label allocation in a layer-2 network-instance. For example, pseudowires and EVPN in VPWS or MAC-VRF services.
Context	system mpls services network-instance dynamic-label-blocks ethernet *reference*
Tree	ethernet
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-with-control-word *reference*

Description	Reference to the dynamic label block used by layer-2 network-instances (VPWS and MAC-VRF) with control word enabled The label block is used by all the applications that require MPLS label allocation in a layer-2 network-instance with control word enabled. For example, pseudowires and EVPN in VPWS or MAC-VRF services.
Context	system mpls services network-instance dynamic-label-blocks ethernet-with-control-word *reference*
Tree	ethernet-with-control-word
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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evpn-inclusive-multicast *reference*

Description Reference to the dynamic evpn inclusive multicast label block used by EVPN MAC-VRFs

The label block is used by EVPN-MPLS MAC-VRF services for the allocation of labels that are advertised in EVPN Inclusive Multicast Ethernet Tag routes and that identify incoming layer-2 Broadcast, Unknown unicast and Multicast traffic.

Context system mpls services network-instance dynamic-label-blocks evpn-inclusive-multicast *reference*

Tree evpn-inclusive-multicast

Reference system mpls label-ranges dynamic name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn-inclusive-multicast-control-word *reference*

Description Reference to the dynamic evpn inclusive multicast label block used by EVPN MAC-VRFs with control word enabled

The label block is used by EVPN-MPLS MAC-VRF services with control word enabled for the allocation of labels that are advertised in EVPN Inclusive Multicast Ethernet Tag routes and that identify incoming layer-2 Broadcast, Unknown unicast and Multicast traffic.

Context system mpls services network-instance dynamic-label-blocks evpn-inclusive-multicast-control-word *reference*

Tree evpn-inclusive-multicast-control-word

Reference system mpls label-ranges dynamic name *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip *reference*

Description Reference to the dynamic label block used by IP-VRF network-instances

The label block is used by all the applications that require MPLS label allocation in a layer-3 network-instance. For example, EVPN-IFL or IP-VPN services.

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Context	system mpls services network-instance dynamic-label-blocks ip *reference*
Tree	ip
Reference	system mpls label-ranges dynamic name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mtu

Description	Enter the mtu context Top-level container for configuration and state data related to the system MTU
Context	system mtu
Tree	mtu
Configurable	True
Platforms	Supported on all platforms

default-ip-mtu *number*

Description	System default IP MTU in bytes including the IP header but excluding Ethernet overhead The 7220 IXR systems support a maximum IP MTU of 9398 bytes.
Context	system mtu default-ip-mtu *number*
Tree	default-ip-mtu
Range	1280 to 9486
Default	1500
Configurable	True
Platforms	Supported on all platforms

default-l2-mtu *number*

Description	System default Layer-2 MTU in bytes for bridged subinterfaces It includes the ethernet overhead and VLAN tags but excludes 4-bytes FCS. The default-l2-mtu is also used as the oper-mac-vrf-mtu and oper-vpws-mtu value if the network-instance does not have subinterfaces. The 7220 IXR systems support a maximum L2 MTU of 9412 bytes.

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Context	system mtu default-l2-mtu *number*
Tree	default-l2-mtu
Range	1500 to 9500
Default	9232
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-mpls-mtu *number*

Description	System default MPLS MTU in bytes including the size of the transmitted label stack.
Context	system mtu default-mpls-mtu *number*
Tree	default-mpls-mtu
Range	1284 to 9496
Default	1508
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-port-mtu *number*

Description	System default port MTU in bytes including ethernet overhead but excluding 4-bytes FCS The 7220 IXR systems support a maximum port MTU of 9412 bytes.
Context	system mtu default-port-mtu *number*
Tree	default-port-mtu
Range	1500 to 9500
Default	9232
Configurable	True
Platforms	Supported on all platforms

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min-path-mtu *number*

Description Sets the minimum path MTU to use when receiving an ICMP fragmentation needed message

This is controlled via the kernel min_pmtu option. In the event an ICMP fragmentation needed message is received by the kernel, the system will drop the session to this MTU to allow packets to traverse the entire path.

Context system mtu min-path-mtu *number*

Tree min-path-mtu

Range 552 to 9232

Default 552

Configurable True

Platforms Supported on all platforms

multicast

Description Enter the multicast context

system multicast information

Context system multicast

Tree multicast

Configurable True

Platforms Supported on all platforms

multicast-ids

Description Enter the multicast-ids context

system multicast id information

Context system multicast multicast-ids

Tree multicast-ids

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context system multicast multicast-ids statistics

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Tree	statistics
Configurable	False
Platforms	Supported on all platforms

current-usage *number*

Description	The total number of multicast ids that are in use on the system.
Context	system multicast multicast-ids statistics current-usage *number*
Tree	current-usage
Default	0
Configurable	False
Platforms	Supported on all platforms

maximum-ids *number*

Description	Maximum number of multicast ids available in the system.
Context	system multicast multicast-ids statistics maximum-ids *number*
Tree	maximum-ids
Configurable	False
Platforms	Supported on all platforms

multicast-id-user-type user *keyword*

Description	the type of the user of multicast id in the system.
Context	system multicast multicast-ids statistics multicast-id-user-type user *keyword*
Tree	multicast-id-user-type
Configurable	False
Platforms	Supported on all platforms

user *keyword*

Description	Enter the user context
Context	system multicast multicast-ids statistics multicast-id-user-type user *keyword*
Options	• mac-vrf • vxlan-interface • l2-proxy-arp-nd

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- mfib
- mac-vrf-bgp-evpn
- mldp
- static-lsp
- mfib-secondary

Configurable False

Platforms Supported on all platforms

current-usage *number*

Description The total number of multicast ids that are in use on the system.

Context system multicast multicast-ids statistics multicast-id-user-type user *keyword* current-usage *number*

Tree current-usage

Default 0

Configurable False

Platforms Supported on all platforms

total-pending *number*

Description The total number of multicast ids pending allocation on the system.

Context system multicast multicast-ids statistics multicast-id-user-type user *keyword* total-pending *number*

Tree total-pending

Default 0

Configurable False

Platforms Supported on all platforms

total-pending *number*

Description The total number of multicast ids pending allocation on the system.

Context system multicast multicast-ids statistics total-pending *number*

Tree total-pending

Default 0

Configurable False

Platforms Supported on all platforms

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replication-ids

Description	Enter the replication-ids context system replication id information
Context	system multicast replication-ids
Tree	replication-ids
Configurable	False
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	system multicast replication-ids statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms

current-usage *number*

Description	The total number of replication ids that are in use on the system
Context	system multicast replication-ids statistics current-usage *number*
Tree	current-usage
Default	0
Configurable	False
Platforms	Supported on all platforms

maximum-ids *number*

Description	Maximum number of replication ids available in the system
Context	system multicast replication-ids statistics maximum-ids *number*
Tree	maximum-ids
Configurable	False
Platforms	Supported on all platforms

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total-pending *number*

Description	The total number of replication ids pending allocation on the system
Context	system multicast replication-ids statistics total-pending *number*
Tree	total-pending
Default	0
Configurable	False
Platforms	Supported on all platforms

multicast-forwarding-information-base

Description	Enter the multicast-forwarding-information-base context System Multicast Forwarding Information Base table
Context	system multicast-forwarding-information-base
Tree	multicast-forwarding-information-base
Configurable	False
Platforms	Supported on all platforms

multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*

Description	List of all the MFIB entries in the system
Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Tree	multicast-route
Configurable	False
Platforms	Supported on all platforms

network-instance *reference*

Description	Indicates that the MFIB entry is associated to this network instance
Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Reference	network-instance name *string*
Configurable	False

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Platforms	Supported on all platforms

source *(ipv4-address | ipv6-address)*

Description	Source IP address of the MFIB entry
Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	Supported on all platforms

group *(ipv4-address | ipv6-address)*

Description	Multicast group address of the MFIB entry
Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	Supported on all platforms

last-update *string*

Description	Last update of this MFIB entry
Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	Supported on all platforms

line-card-replication-index *number*

Description	Line card Replication Index (LRID) allocated by mfib_mgr Upon programming an MFIB entry, mfib_mgr requests a Multicast Identifier (MCID) to mcid_mgr and based on the response with an allocated MCID, mfib_mgr allocates a LRID for the entry. A value 0 indicates that no MCID was received for the entry, and therefore the MFIB entry cannot forward multicast traffic.

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Context	system multicast-forwarding-information-base multicast-route network-instance *reference* source *(ipv4-address | ipv6-address)* group *(ipv4-address | ipv6-address)* line-card-replication-index *number*
Tree	line-card-replication-index
Default	0
Configurable	False
Platforms	Supported on all platforms

name

Description	Enter the name context Contains configuration and state related to system naming
Context	system name
Tree	name
Configurable	True
Platforms	Supported on all platforms

domain-name *string*

Description	The system domain name
Context	system name domain-name *string*
Tree	domain-name
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms

host-name *string*

Description	The system host name
Context	system name host-name *string*
Tree	host-name
String Length	1 to 63
Configurable	True
Platforms	Supported on all platforms

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ndk-server

Description	Top-level container for configuration and state related to NDK server instance.
Context	system ndk-server
Tree	ndk-server
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Globally enable or disable the NDK server Disabling the NDK server will disable its unix domain and tcp/ip sockets.
Context	system ndk-server admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

netconf-server name *string*

Description	Configures the NETCONF server instance
Context	system netconf-server name *string*
Tree	netconf-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description NETCONF service instance name

Context system netconf-server name *string*

String Length 1 to 247

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Administratively enable or disable the NETCONF server instance

Context system netconf-server name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-oper-change *string*

Description NETCONF last operational state change

Time of last change of operational state of NETCONF server instance

Context system netconf-server name *string* last-oper-change *string*

Tree last-oper-change

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String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *identityref*

Description	Details why the NETCONF server instance is operationally unavailable
Context	system netconf-server name *string* oper-down-reason *identityref*
Tree	oper-down-reason
Options	• admin-disabled NETCONF server administratively disabled • ssh-server-down Bound SSH server instance is operationaly down • socket-create-failed Unable to create listening socket. This usually means that there are missing permisions to create socket • socket-bind-failed Unable to bind socket to an address or a file. If unix-socket transport is used this usually means that UNIX socket file already exist or is used by other service. If TLS transport is used this usually means that configured address is already used by other service • socket-file-create-failed Unable to create UNIX socket file. This usually means that the file location does not exist or there are insufficient access rights to modify file location or the file location resides on a read-only file system • out-of-resources System does not have enough resources to enable NETCONF server. This usually means that the limit on the number of open file descriptors has been reached or the limit on the number of open files has been reached • out-of-memory System does not have enough memory.
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details if the NETCONF server instance is operationally available

Context system netconf-server name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

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This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-id *number*

Description Enter the session list instance

Context system netconf-server name *string* session session-id *number*

Tree session

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id *number*

Description Enter the session-id context

Context system netconf-server name *string* session session-id *number*

Range 1 to 4294967295

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system netconf-server name *string* session session-id *number* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-limit *number*

Description Set a limit on the number of simultaneous active NETCONF sessions

A session is defined as an individual client connection over which a NETCONF session has been started by providing bi-directional <hello> messages

Context system netconf-server name *string* session-limit *number*

Tree session-limit

Range 1 to 64

Default 64

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ssh-server *reference*

Description The SSH server instance to bind the NETCONF server to

Context system netconf-server name *string* ssh-server *reference*

Tree ssh-server

Reference system ssh-server name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system netconf-server name *string* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-sessions *number*

Description Active NETCONF sessions

The total number of active NETCONF sessions. A session is defined as an individual client connection over which a NETCONF session has been started by providing bi-directional <hello> messages

Context system netconf-server name *string* statistics active-sessions *number*

Tree active-sessions

Range 0 to 64

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-id *number*

Description	Enter the session list instance
Context	system netconf-server name *string* statistics session session-id *number*
Tree	session
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id *number*

Description	Enter the session-id context
Context	system netconf-server name *string* statistics session session-id *number*
Range	1 to 4294967295
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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action-requests *number*

Description NETCONF <action> requests

Number of <action> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* action-requests *number*

Tree action-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

commit-requests *number*

Description NETCONF <commit> requests

Number of commit NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* commit-requests *number*

Tree commit-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

copy-config-requests *number*

Description NETCONF <copy-config> requests

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Number of copy-config NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* copy-config-requests *number*

Tree copy-config-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-config-requests *number*

Description NETCONF <delete-config> requests

Number of <delete-config> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* delete-config-requests *number*

Tree delete-config-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discard-changes-requests *number*

Description NETCONF <discard-changes> requests

Number of <discard-changes> NETCONF requests that have been accepted and processed by the NETCONF server

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Context	system netconf-server name *string* statistics session session-id *number* discard-changes-requests *number*
Tree	discard-changes-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

edit-config-requests *number*

Description	NETCONF <edit-config> requests Number of <edit-config> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics session session-id *number* edit-config-requests *number*
Tree	edit-config-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

edit-data-requests *number*

Description	NETCONF <edit-data> requests Number of <edit-data> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics session session-id *number* edit-data-requests *number*
Tree	edit-data-requests

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Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-edit-config-requests *number*

Description	Failed NETCONF <edit-config> requests Number of <edit-config> NETCONF requests that have failed because of locks taken by other NETCONF sessions
Context	system netconf-server name *string* statistics session session-id *number* failed-edit-config-requests *number*
Tree	failed-edit-config-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-edit-data-requests *number*

Description	Failed NETCONF <edit-data> requests Number of <edit-data> NETCONF requests that have failed because of locks taken by other NETCONF sessions
Context	system netconf-server name *string* statistics session session-id *number* failed-edit-data-requests *number*
Tree	failed-edit-data-requests
Default	0
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-lock-requests *number*

Description	Failed NETCONF <lock> requests Number of <lock> NETCONF requests that have failed because of locks taken by other NETCONF sessions
Context	system netconf-server name *string* statistics session session-id *number* failed-lock-requests *number*
Tree	failed-lock-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

get-config-requests *number*

Description	NETCONF <get-config> requests Number of <get-config> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics session session-id *number* get-config-requests *number*
Tree	get-config-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

get-data-requests *number*

Description NETCONF <get-data> requests

Number of <get-data> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* get-data-requests *number*

Tree get-data-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

get-requests *number*

Description NETCONF <get> requests

Number of <get> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* get-requests *number*

Tree get-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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get-schema-requests *number*

Description NETCONF <get-schema> requests

Number of <get-schema> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* get-schema-requests *number*

Tree get-schema-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-bad-hellos *number*

Description Inbound bad NETCONF hello messages

Number of bad NETCONF hello messages that have been received by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* in-bad-hellos *number*

Tree in-bad-hellos

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

kill-session-requests *number*

Description NETCONF <kill-session> requests

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Number of <kill-session> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* kill-session-requests *number*

Tree kill-session-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lock-requests *number*

Description NETCONF <lock> requests

Number of <lock> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics session session-id *number* lock-requests *number*

Tree lock-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

process-id *number*

Description The process ID of the NETCONF session

Context system netconf-server name *string* statistics session session-id *number* process-id *number*

Tree process-id

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unlock-requests *number*

Description	NETCONF <unlock> requests Number of <unlock> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics session session-id *number* unlock-requests *number*
Tree	unlock-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

validate-requests *number*

Description	NETCONF <validate> requests Number of <validate> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics session session-id *number* validate-requests *number*
Tree	validate-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-action-requests *number*

Description NETCONF <action> requests

Total number of <action> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-action-requests *number*

Tree total-action-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-close-session-requests *number*

Description NETCONF <close-session> requests

Total number of <close-session> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-close-session-requests *number*

Tree total-close-session-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-commit-requests *number*

Description NETCONF <commit> requests

Total number of commit NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-commit-requests *number*

Tree total-commit-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-copy-config-requests *number*

Description NETCONF <copy-config> requests

Total number of copy-config NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-copy-config-requests *number*

Tree total-copy-config-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-delete-config-requests *number*

Description NETCONF <delete-config> requests

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Total number of <delete-config> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-delete-config-requests *number*

Tree total-delete-config-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-discard-changes-requests *number*

Description NETCONF <discard-changes> requests

Total number of <discard-changes> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-discard-changes-requests *number*

Tree total-discard-changes-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-dropped-sessions *number*

Description NETCONF dropped sessions

Total number of dropped NETCONF sessions

Context system netconf-server name *string* statistics total-dropped-sessions *number*

Tree total-dropped-sessions

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Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-edit-config-requests *number*

Description	NETCONF <edit-config> requests Total number of <edit-config> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-edit-config-requests *number*
Tree	total-edit-config-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-edit-data-requests *number*

Description	NETCONF <edit-data> requests Total number of <edit-data> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-edit-data-requests *number*
Tree	total-edit-data-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-error-responses *number*

Description NETCONF error responses

Total number of NETCONF error responses that have been generated and sent by the NETCONF server

Context system netconf-server name *string* statistics total-error-responses *number*

Tree total-error-responses

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-failed-edit-config-requests *number*

Description Failed NETCONF <edit-config> requests

Total number of <edit-config> NETCONF requests that have failed because of locks taken by other NETCONF sessions

Context system netconf-server name *string* statistics total-failed-edit-config-requests *number*

Tree total-failed-edit-config-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-failed-edit-data-requests *number*

Description Failed NETCONF <edit-data> requests

Total number of <edit-data> NETCONF requests that have failed because of locks taken by other NETCONF sessions

Context system netconf-server name *string* statistics total-failed-edit-data-requests *number*

Tree total-failed-edit-data-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-failed-lock-requests *number*

Description Failed NETCONF <lock> requests

Total number of <lock> NETCONF requests that have failed because of locks taken by other NETCONF sessions

Context system netconf-server name *string* statistics total-failed-lock-requests *number*

Tree total-failed-lock-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-get-config-requests *number*

Description	NETCONF <get-config> requests Total number of <get-config> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-get-config-requests *number*
Tree	total-get-config-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-get-data-requests *number*

Description	NETCONF <get-data> requests Total number of <get-data> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-get-data-requests *number*
Tree	total-get-data-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-get-requests *number*

Description	NETCONF <get> requests

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Total number of <get> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-get-requests *number*

Tree total-get-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-get-schema-requests *number*

Description NETCONF <get-schema> requests

Total number of <get-schema> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-get-schema-requests *number*

Tree total-get-schema-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-in-bad-hellos *number*

Description Inbound bad NETCONF hello messages

Total number of bad NETCONF hello messages that have been received by the NETCONF server

Context system netconf-server name *string* statistics total-in-bad-hellos *number*

Tree total-in-bad-hellos

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Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-kill-session-requests *number*

Description	NETCONF <kill-session> requests Total number of <kill-session> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-kill-session-requests *number*
Tree	total-kill-session-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-lock-requests *number*

Description	NETCONF <lock> requests Total number of <lock> NETCONF requests that have been accepted and processed by the NETCONF server
Context	system netconf-server name *string* statistics total-lock-requests *number*
Tree	total-lock-requests
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-requests *number*

Description NETCONF total requests

Total number of NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-requests *number*

Tree total-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-responses *number*

Description NETCONF total responses

Total number of NETCONF responses that have been generated and sent by the NETCONF server

Context system netconf-server name *string* statistics total-responses *number*

Tree total-responses

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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total-unlock-requests *number*

Description NETCONF <unlock> requests

Total number of <unlock> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-unlock-requests *number*

Tree total-unlock-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-validate-requests *number*

Description NETCONF <validate> requests

Total number of <validate> NETCONF requests that have been accepted and processed by the NETCONF server

Context system netconf-server name *string* statistics total-validate-requests *number*

Tree total-validate-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trace-options

Description Enter the trace-options context

Debug trace-options for NETCONF

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Context system netconf-server name *string* trace-options

Tree trace-options

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

direction *keyword*

Description Direction to trace messages

Context system netconf-server name *string* trace-options direction *keyword*

Tree direction

Default both

Options

- both

  Trace input and output messages
- input

  Trace input messages
- output

  Trace output messages

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpc *keyword*

Description RPC messages to trace

Context system netconf-server name *string* trace-options rpc *keyword*

Tree rpc

Options

- action

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Trace <action> RPC messages

- cancel-commit

  Trace <cancel-commit> RPC messages
- close-session

  Trace <close-session> RPC messages
- commit

  Trace <commit> RPC messages
- copy-config

  Trace <copy-config> RPC messages
- delete-config

  Trace <delete-config> RPC messages
- discard-changes

  Trace <discard-changes> RPC messages
- edit-config

  Trace <edit-config> RPC messages
- edit-data

  Trace <edit-data> RPC messages
- get-config

  Trace <get-config> RPC messages
- get-data

  Trace <get-data> RPC messages
- get-schema

  Trace <get-schema> RPC messages
- get

  Trace <get> RPC messages
- hello

  Trace <hello> messages
- kill-session

  Trace <kill-session> RPC messages
- lock

  Trace <lock> RPC messages
- unknown

  Trace messages that are unknown to the server
- unlock

  Trace <unlock> RPC messages
- validate

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Trace <validate> RPC messages

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unix-socket

Description Create a new UNIX socket and bind the NETCONF service to it

Context system netconf-server name *string* unix-socket

Tree unix-socket

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

socket-path *string*

Description Path to the unix socket used by NETCONF

Context system netconf-server name *string* unix-socket socket-path *string*

Tree socket-path

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance

Description	Enable the network-instance context
Context	system network-instance
Tree	network-instance
Configurable	True
Platforms	Supported on all platforms

protocols

Description	Enter the protocols context The routing protocols that are enabled for this network-instance.
Context	system network-instance protocols
Tree	protocols
Configurable	True
Platforms	Supported on all platforms

bgp-vpn

Description	Enable the bgp-vpn context
Context	system network-instance protocols bgp-vpn
Tree	bgp-vpn
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-instance id *number*

Description	List of bgp-vpn instances configured in the system network-instance. Only one instance allowed in the current release.
Context	system network-instance protocols bgp-vpn bgp-instance id *number*
Tree	bgp-instance
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

id *number*

Description	The index of the bgp-vpn instance
Context	system network-instance protocols bgp-vpn bgp-instance id *number*
Range	1 to 2
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description	Reason for the system bgp-instance being down
Context	system network-instance protocols bgp-vpn bgp-instance id *number* oper-down-reason *keyword*
Tree	oper-down-reason
Options	• no-loopback-address • no-esi • none • network-instance-oper-down • bad-rd-format • evpn-or-ipvpn-config-incomplete
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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route-distinguisher

Description Enter the route-distinguisher context

Route Distinguisher (RD) of the bgp-vpn instance.

Context system network-instance protocols bgp-vpn bgp-instance id *number* route-distinguisher

Tree route-distinguisher

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rd *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description Route Distinguisher (RD) of the system bgp-vpn instance. The RD is auto-derived as <ip-address>:0 where 'ip-address' is the ipv4 address associated to the subinterface system0.0.

Context system network-instance protocols bgp-vpn bgp-instance id *number* route-distinguisher rd *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Tree rd

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher-origin *keyword*

Description Origin of the operational Route Distinguisher (RD) of the bgp-vpn instance.

'Auto-derived-from-system-ip:0' refers to the RD for the EVPN Ethernet Segment routes that is automatically allocated with the format <ip-address>:0 where 'ip-address' is the ipv4 address associated to the subinterface system0.0.

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Context system network-instance protocols bgp-vpn bgp-instance id *number* route-distinguisher route-distinguisher-origin *keyword*

Tree route-distinguisher-origin

Options
- auto-derived-from-system-ip:0
- none

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-target

Description Enter the route-target context

Route Target (RT) of the system bgp-vpn instance.

Context system network-instance protocols bgp-vpn bgp-instance id *number* route-target

Tree route-target

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

export-route-target-origin *keyword*

Description Origin of the operational export Route Target (RT) of the bgp-vpn instance.

'Auto-derived-from-esi-bytes-1-6' refers to the ES-import RT for the EVPN Ethernet Segment routes that is derived from bytes 1 to 6 of the Ethernet Segment Identifier of the route.

Context system network-instance protocols bgp-vpn bgp-instance id *number* route-target export-route-target-origin *keyword*

Tree export-route-target-origin

Options
- auto-derived-from-esi-bytes-1-6
- none

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Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

import-route-target-origin *keyword*

Description Origin of the operational import Route Target (RT) of the bgp-vpn instance.

'Auto-derived-from-esi-bytes-1-6' refers to the ES-import RT for the EVPN Ethernet Segment routes that is derived from bytes 1 to 6 of the Ethernet Segment Identifier of the route.

Context system network-instance protocols bgp-vpn bgp-instance id *number* route-target import-route-target-origin *keyword*

Tree import-route-target-origin

Options

- auto-derived-from-esi-bytes-1-6
- none

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evpn

Description Enable the evpn context

Context system network-instance protocols evpn

Tree evpn

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ethernet-segments

Description	Enable the ethernet-segments context
Context	system network-instance protocols evpn ethernet-segments
Tree	ethernet-segments
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-instance id *reference*

Description	bgp global instances configured in net-instance
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference*
Tree	bgp-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

id *reference*

Description	Enter the id context
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference*
Reference	system network-instance protocols bgp-vpn bgp-instance id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ethernet-segment name *string*

Description	Ethernet Segment configuration and state.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string*
Tree	ethernet-segment
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1024

name *string*

Description	A unique name identifying the ethernet segment.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Admin state of the ethernet segment
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

advertise-ifl-host-ad-routes

Description Enables the advertisement of IP AD per EVI/ES routes for IP Aliasing

When configured, AD per-EVI/ES routes are advertised for the IP-VRF and bgp-evpn instances with MAC-VRFs attached to the Ethernet Segment. The AD per-EVI routes for the IP-VRFs contain the route distinguisher, route targets and label/VNI of the IP-VRF bgp-evpn instance (with the instance indicated in the bgp-evpn-instance command). The AD per-ES routes for the IP-VRFs contain the route distinguisher and route targets of the IP-VRF bgp-evpn-instance. On the remote PEs, the reception of BGP-EVPN-IFL-HOST routes with an ESI matching the ESI of the IP-VRF AD per-EVI/ES routes, will enable the IP Aliasing procedures for BGP-EVPN-IFL-HOST routes.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* advertise-ifl-host-ad-routes

Tree advertise-ifl-host-ad-routes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-evpn-instance *reference*

Description The bgp-evpn instance of the IP-VRF network-instance using the Ethernet Segment

It indicates from which EVPN interface-less bgp-instance the label/VNI, route distinguisher and route targets are taken when advertising the AD per-EVI routes and the AD per-ES routes (except for the VNI/label in AD per-ES routes).

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* advertise-ifl-host-ad-routes bgp-evpn-instance *reference*

Tree bgp-evpn-instance

Default 1

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Reference	network-instance name *string* protocols bgp-vpn bgp-instance id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

internal-tags

Description	Enter the internal-tags context Configuration and state of internal tags
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* advertise-ifl-host-ad-routes internal-tags
Tree	internal-tags
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-tag-set *reference*

Description	Reference to a tag-set defined under routing-policy
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* advertise-ifl-host-ad-routes internal-tags set-tag-set *reference*
Tree	set-tag-set
Reference	routing-policy tag-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

anycast-multi-homing

Description Configuration of anycast ethernet segments

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* anycast-multi-homing

Tree anycast-multi-homing

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *ipv4-address-excluding-all-zero*

Description The anycast IP address of the anycast ethernet segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* anycast-multi-homing ip-address *ipv4-address-excluding-all-zero*

Tree ip-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association

Description Enter the association context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association

Tree association

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *string*

Description network instance associated to this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string*

Tree network-instance

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Enter the name context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bgp-instance instance *number*

Description bgp-instance associated to this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number*

Tree bgp-instance

Configurable False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance *number*

Description Enter the instance context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

computed-designated-forwarder-candidates

Description Enter the computed-designated-forwarder-candidates context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* computed-designated-forwarder-candidates

Tree computed-designated-forwarder-candidates

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-forwarder-candidate address *(ipv4-address | ipv6-address)*

Description designated forwarder candidates for this evi

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* computed-designated-forwarder-

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candidates designated-forwarder-candidate address *(ipv4-address | ipv6-address)*

Tree designated-forwarder-candidate

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description Enter the address context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* computed-designated-forwarder-candidates designated-forwarder-candidate address *(ipv4-address | ipv6-address)*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

add-time *string*

Description The date and time when the designated-forwarder-candidate was added to the designated forwarder candidate list for this evi

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* computed-designated-forwarder-candidates designated-forwarder-candidate address *(ipv4-address | ipv6-address)* add-time *string*

Tree add-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-forwarder *boolean*

Description Indicates if this designated-forwarder-candidate is the designated-forwarder.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* computed-designated-forwarder-candidates designated-forwarder-candidate address *(ipv4-address | ipv6-address)* designated-forwarder *boolean*

Tree designated-forwarder

Default false

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-forwarder-activation-start-time *string*

Description Indicates the time at which the designated-forwarder activation timer started.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* designated-forwarder-activation-start-time *string*

Tree designated-forwarder-activation-start-time

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-forwarder-activation-time *number*

Description Indicates the number of seconds for the activation timer to run, for this node to become the designated forwarder for this bgp instance.

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Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* designated-forwarder-activation-time *number*
Tree	designated-forwarder-activation-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

designated-forwarder-role-last-change *string*

Description	Indicates the time at which the designated-forwarder role was changed.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* association network-instance name *string* bgp-instance instance *number* designated-forwarder-role-last-change *string*
Tree	designated-forwarder-role-last-change
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

autodiscovery-per-ethernet-segment-routes

Description	Enter the autodiscovery-per-ethernet-segment-routes context
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes
Tree	autodiscovery-per-ethernet-segment-routes
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes attr-id *reference*

Tree attr-id

Reference network-instance name *string* bgp-rib attr-sets attr-set index *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description The Ethernet Segment Identifier encoded in the NLRI

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes esi *string*

Tree esi

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-tag-id *number*

Description The 32-bit Ethernet Tag ID encoded in the NLRI. The Ethernet Tag ID identifies a broadcast domain

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes ethernet-tag-id *number*

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Tree	ethernet-tag-id
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label

Description	Enter the label context The encoded label value and type in the EVPN NLRI
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes label
Tree	label
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value *number*

Description	The value of the label field If the route is an EVPN MPLS route, the mpls-label is read out of the 20-bit high order value. If the route is an EVPN VXLAN route, the vni is read out of the 24-bit value. If the route is an EVPN SRv6 route, this field is set to zero if no transposition is used and set to a non-zero value if transposition is used. For all the cases, if this is an Auto-Discovery per ES route, this leaf is set to zero.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes label value *number*
Tree	value
Range	0 to 16777215
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

value-type *keyword*

Description Whether the encoded label value is an mpls-label, a vni or a transposed function or argument

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes label value-type *keyword*

Tree value-type

Options

- mpls-label
- vni
- transposed-srv6-function

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Tree neighbor

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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path-id *number*

Description Path identifier of the BGP route

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes path-id *number*

Tree path-id

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description The route distinguisher encoded in the NLRI

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* autodiscovery-per-ethernet-segment-routes route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Tree route-distinguisher

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

df-election

Description Enter the df-election context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election

Tree df-election

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

algorithm

Description Enter the algorithm context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm

Tree algorithm

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

manual-alg

Description Enable the manual-alg context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm manual-alg

Tree manual-alg

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

primary-evi-range start-evi *number*

Description evi range for this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm manual-alg primary-evi-range start-evi *number*

Tree primary-evi-range

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-evi *number*

Description start of the evi-range for this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm manual-alg primary-evi-range start-evi *number*

Range 1 to 65535

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-evi *number*

Description end of the evi-range for this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm manual-alg primary-evi-range start-evi *number* end-evi *number*

Tree end-evi

Range 1 to 65535

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-type *keyword*

Description Operational Designated Forwarder algorithm type for this ethernet-segment.

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Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm oper-type *keyword*

Tree oper-type

Options
- default
- preference
- manual

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preference-alg

Description Enable the preference-alg context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg

Tree preference-alg

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

capabilities

Description Enter the capabilities context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg capabilities

Tree capabilities

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ac-df *keyword*

Description Attachment Circuit influenced DF Election.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg capabilities ac-df *keyword*

Tree ac-df

Default include

Options

- include
- exclude

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

non-revertive *boolean*

Description Non Revertive mode. If set to true, the 'Don't Preempt Me' capability is advertised in the ES route.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg capabilities non-revertive *boolean*

Tree non-revertive

Default false

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-do-not-prempt *boolean*

Description Operational do-not-preempt value

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Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg oper-do-not-prempt *boolean*
Tree	oper-do-not-prempt
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-preference-value *number*

Description	Operational Preference value
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg oper-preference-value *number*
Tree	oper-preference-value
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

preference-value *number*

Description	Preference that is used to elect the designated forwarder
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm preference-alg preference-value *number*
Tree	preference-value
Range	0 to 65535
Default	32767
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Designated Forwarder algorithm type for this ethernet-segment.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election algorithm type *keyword*

Tree type

Default default

Options

- default
- preference
- manual

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-standby-signaling-on-non-df

Description Enable the interface-standby-signaling-on-non-df context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election interface-standby-signaling-on-non-df

Tree interface-standby-signaling-on-non-df

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timers

Description Enter the timers context

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Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election timers
Tree	timers
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

activation-timer *number*

Description	Remaining activation timer per Ethernet segment
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* df-election timers activation-timer *number*
Tree	activation-timer
Range	0 to 100
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description	The 10-byte Ethernet Segment Identifier of the ethernet segment. ESI-0 or MAX-ESI values are not allowed. ESI values with bytes 1-6 all zeros are not allowed since they would produce a null ESI-import route-target.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* esi *string*
Tree	esi
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi-label *number*

Description The esi label allocated for this ethernet-segment.

The esi-label is advertised by the EVPN Auto-Discovery-Ethernet-Segment Advertisement routes and it is expected on received EVPN packets that were generated as multicast packets from this ethernet-segments peers.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* esi-label *number*

Tree esi-label

Range 16 to 1048575

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-segment-routes

Description Enter the ethernet-segment-routes context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes

Tree ethernet-segment-routes

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attr-id *reference*

Description Leaf reference to networkinstance/protocols/bgp/rib/attr-sets/attr-set/index

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes attr-id *reference*

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Tree	attr-id
Reference	network-instance name *string* bgp-rib attr-sets attr-set index *number*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description	The Ethernet Segment Identifier
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes esi *string*
Tree	esi
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description	If the route was learned from a BGP neighbor, this is the IPv4 or IPv6 address of that neighbor
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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originating-router *(ipv4-address | ipv6-address)*

Description	The IPv4 or IPv6 address of the originating router
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes originating-router *(ipv4-address | ipv6-address)*
Tree	originating-router
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

path-id *number*

Description	Path identifier of the BGP route
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes path-id *number*
Tree	path-id
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*

Description	The route distinguisher encoded in the NLRI
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* ethernet-segment-routes route-distinguisher *(route-distinguisher-type-0 | route-distinguisher-type-1 | route-distinguisher-type-2 | route-distinguisher-type-2b)*
Tree	route-distinguisher
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface ethernet-interface *reference*

Description	Add a list entry for interface
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* interface ethernet-interface *reference*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

ethernet-interface *reference*

Description	Interface associated with the ethernet segment.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* interface ethernet-interface *reference*
Reference	interface name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

layer-3-neighbor-synchronization *boolean*

Description	Enables the layer-3 ARP and ND synchronization across PEs

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When set to true, the Ethernet Segment is used to synchronize ARP and/or Neighbor Discovery entries on non-IRB subinterfaces across all the PEs attached to the same CE that uses a single LAG.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* layer-3-neighbor-synchronization *boolean*

Tree layer-3-neighbor-synchronization

Default false

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multi-homing-mode *keyword*

Description Multi-homing mode of the ethernet segment.

The state of this leaf can be different than the configured value in cases where the configured value is 'all-active' and the multi-homing mode advertised by the ES peers in the AD per-ES routes is 'single-active'. In this case, the state of this leaf will show 'single-active'.

When an Ethernet Segment (ES) is configured as either all-active-no-esi-label or single-active-no-esi-label, no ESI (Ethernet Segment Identifier) label is allocated. This configuration is suitable for Ethernet segments connected exclusively to VXLAN or VPWS network instances.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* multi-homing-mode *keyword*

Tree multi-homing-mode

Default all-active

Options

- all-active
- single-active

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop l3-next-hop *(ipv4-address | ipv6-address)*

Description Enter the next-hop list instance

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Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* next-hop l3-next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

l3-next-hop *(ipv4-address | ipv6-address)*

Description	Layer-3 next-hop associated with the ethernet segment.
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* next-hop l3-next-hop *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

evi start *number*

Description	evi range for this ethernet-segment association
Context	system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* next-hop l3-next-hop *(ipv4-address | ipv6-address)* evi start *number*
Tree	evi
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

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start *number*

Description start of the evi-range for this ethernet-segment

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* next-hop l3-next-hop *(ipv4-address | ipv6-address)* evi start *number*

Range 1 to 65535

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-down-reason *keyword*

Description The reason for the ethernet-segment being down in the bgp-instance

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* oper-down-reason *keyword*

Tree oper-down-reason

Options

- admin-disabled
- no-nexthop-address
- no-originating-address
- no-associated-interface
- associated-interface-oper-down
- no-esi
- no-esi-label
- tag-set-not-resolved

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-esi *string*

Description The operational Ethernet Segment Identifier used in the ethernet segment.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* oper-esi *string*

Tree oper-esi

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-multi-homing-mode *keyword*

Description Operational Multi-homing mode of the ethernet segment.

The state of this leaf can be different than the configured value in cases where the configured value is 'all-active' and the multi-homing mode advertised by the ES peers in the AD per-ES routes is 'single-active'. In this case, the state of this leaf will show 'single-active'.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* oper-multi-homing-mode *keyword*

Tree oper-multi-homing-mode

Options

- all-active
- single-active

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description This leaf contains the operational state of ethernet segment.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* oper-state *keyword*

Tree oper-state

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Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

routes

Description Enter the routes context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* routes

Tree routes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet-segment

Description Enter the ethernet-segment context

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* routes ethernet-segment

Tree ethernet-segment

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originating-ip *(keyword | ipv4-address | ipv6-address)*

Description The originating ip-address with which the Ethernet Segment route will be advertised in this evpn instance

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* routes ethernet-segment originating-ip *(keyword | ipv4-address | ipv6-address)*

Tree originating-ip

Default use-system-ipv4-address

Options

- use-system-ipv4-address

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- use-system-ipv6-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

next-hop *(keyword | ipv4-address | ipv6-address)*

Description The ip-address that will be used as the bgp-next hop for all ES and AD per-ES routes advertised for this Ethernet Segment.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* routes next-hop *(keyword | ipv4-address | ipv6-address)*

Tree next-hop

Default use-system-ipv4-address

Options

- use-system-ipv4-address
- use-system-ipv6-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Ethernet Segment type.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* type *keyword*

Tree type

Default none

Options

- none
- virtual

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

use-esi-label *boolean*

Description Indicates if an ESI label is used for the ethernet segment

When set to true, the ESI label is used for split-horizon filtering within the Ethernet Segment. 'True' is mandatory for all-active multi-homing mode Ethernet Segments connected to MAC-VRF network-instances using MPLS encapsulation. For all-active Ethernet Segments connected to VPWS network-instances with any encapsulation or MAC-VRFs using VXLAN encapsulation, as well as for single-active Ethernet Segments, the use of the ESI label is optional.

Context system network-instance protocols evpn ethernet-segments bgp-instance id *reference* ethernet-segment name *string* use-esi-label *boolean*

Tree use-esi-label

Default true

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timers

Description Enter the timers context

Context system network-instance protocols evpn ethernet-segments timers

Tree timers

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

activation-timer *number*

Description Enter the activation-timer context

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Context	system network-instance protocols evpn ethernet-segments timers activation-timer *number*
Tree	activation-timer
Range	0 to 100
Default	3
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boot-remaining-time *number*

Description	Indicates the number of seconds remaining for the boot timer to expire.
Context	system network-instance protocols evpn ethernet-segments timers boot-remaining-time *number*
Tree	boot-remaining-time
Units	seconds
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boot-start-time *string*

Description	Indicates the time at which the boot timer started.
Context	system network-instance protocols evpn ethernet-segments timers boot-start-time *string*
Tree	boot-start-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boot-timer *number*

Description Remaining time before running BGP EVPN multi-homing DF election algorithm

Context system network-instance protocols evpn ethernet-segments timers boot-timer *number*

Tree boot-timer

Range 0 to 6000

Default 10

Units seconds

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast

Description Enable the multicast context

Context system network-instance protocols evpn multicast

Tree multicast

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

leave-sync-propagation *number*

Description This value is the delta time applied by a node sending the leave synch route before removing the multicast state

When EVPN multi-homing is used along with igmp/mld snooping, a node receiving a leave message from a receiver will advertise an EVPN Multicast Leave Sync route to synchronize the leave state across all nodes attached to the Ethernet Segment. This route encodes the maximum response time that the receiving node needs to apply for a given (S,G) or (*,G) state

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before removing it. The leave-sync-propagation time accounts for the BGP propagation time so that the local node minimizes the potential churn of removing the multicast state before the route made it to the node receiving a join for the multicast group to be removed. The value must be adjusted to the estimated BGP propagation time between the Ethernet Segment peers.

Context system network-instance protocols evpn multicast leave-sync-propagation *number*

Tree leave-sync-propagation

Range 0 to 300

Default 5

Units seconds

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

routes

Description Enter the routes context

EVPN route configuration in the system network-instance

Context system network-instance protocols evpn routes

Tree routes

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ad-per-evi

Description Enter the ad-per-evi context

Ethernet Auto-Discovery (AD) per EVI route handling

Context system network-instance protocols evpn routes ad-per-evi

Tree ad-per-evi

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-strict-path-selection

Description Strict ECMP path selection for Ethernet AD per EVI routes

With strict ECMP disabled (default), lower-priority but valid AD routes can still appear in the ECMP set, up to the defined ECMP width.

With strict ECMP enabled, only best-tied routes for the highest local-preference and shortest AS-path length (in that order) are included in an ECMP set for AD per EVI routes.

Context system network-instance protocols evpn routes ad-per-evi ecmp-strict-path-selection

Tree ecmp-strict-path-selection

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mgmt-stp name *string*

Description Management Stp Instance configured on the local system

Context system network-instance protocols mgmt-stp name *string*

Tree mgmt-stp

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

Max. Elements 16

name *string*

Description A unique name identifying the mgmt-stp-instance

Context system network-instance protocols mgmt-stp name *string*

String Length 1 to 247

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

admin-state *keyword*

Description	Administratively enable or disable the stp instance When STP on the network instance is administratively disabled, any BPDUs are forwarded transparently. When STP on the network instance is administratively enabled, but the administrative state on a sub-interface is disabled, BPDUs received on such a subinterface are discarded.
Context	system network-instance protocols mgmt-stp name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-address *string*

Description	A 48-bit administered MAC Address assigned to the bridge The bridge mac address cannot be a broadcast or multicast address. The default is the base mac address of the switch. On configuring bridge-address, reserved(0) extended-system-id will be used in the bridge-identifier
Context	system network-instance protocols mgmt-stp name *string* bridge-address *string*
Tree	bridge-address
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-id *string*

Description	The identifier of the bridge The bridge identifier of the bridge in the configuration BPDUs transmitted for the segment to which the port is attached
Context	system network-instance protocols mgmt-stp name *string* bridge-id *string*

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Tree	bridge-id
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bridge-priority *number*

Description	Priority component of the Bridge Identifier
Context	system network-instance protocols mgmt-stp name *string* bridge-priority *number*
Tree	bridge-priority
Range	0 to 61440
Default	32768
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-internal-root-cost *number*

Description	The cost of the path to the CIST regional root bridge
Context	system network-instance protocols mgmt-stp name *string* cist-internal-root-cost *number*
Tree	cist-internal-root-cost
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-regional-root *string*

Description	The bridge identifier of the regional root of the CIST spanning tree
Context	system network-instance protocols mgmt-stp name *string* cist-regional-root *string*
Tree	cist-regional-root
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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cist-regional-root-port *number*

Description	The port number of the port with the lowest cost path
Context	system network-instance protocols mgmt-stp name *string* cist-regional-root-port *number*
Tree	cist-regional-root-port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cist-remaining-hop-count *number*

Description	The remaining number of hops
Context	system network-instance protocols mgmt-stp name *string* cist-remaining-hop-count *number*
Tree	cist-remaining-hop-count
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-root *string*

Description	The identifier of the designated bridge The bridge identifier of the bridge recorded as the root in the configuration BPDUs transmitted by the designated bridge for the segment to which the port is attached
Context	system network-instance protocols mgmt-stp name *string* designated-root *string*
Tree	designated-root
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forward-delay *number*

Description	The delay used by STP bridges to transition root and designated ports to forwarding
Context	system network-instance protocols mgmt-stp name *string* forward-delay *number*

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Tree	forward-delay
Range	4 to 30
Default	15
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hello-time *number*

Description	The interval between periodic transmissions of configuration messages by designated ports
Context	system network-instance protocols mgmt-stp name *string* hello-time *number*
Tree	hello-time
Range	1 to 10
Default	2
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hold-count *number*

Description	The maximum number of BPDUs per second that the switch can send from an interface
Context	system network-instance protocols mgmt-stp name *string* hold-count *number*
Tree	hold-count
Range	1 to 10
Default	6
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hold-time *number*

Description	This time value determines the interval length during which no more than two Configuration bridge PDUs shall be transmitted by this node

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Context	system network-instance protocols mgmt-stp name *string* hold-time *number*
Tree	hold-time
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface interface-name *string*

Description	List of Interfaces to be managed by Mgmt-Stp
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface-name *string*

Description	Name of the MSTP interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string*
String Length	1 to 255
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

admin-state *keyword*

Description	Administratively enable or disable the Mgmt-STP protocol interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard *boolean*

Description	Enable edge port BPDU guard
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* bpdu-guard *boolean*
Tree	bpdu-guard
Default	false
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-error *boolean*

Description	Displays True when the interface is operationally down due to stp bpdu guard error
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* bpdu-guard-error *boolean*
Tree	bpdu-guard-error
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-recovery-time-expires *(number | date-and-time-delta)*

Description	The remaining time until the bpdu-guard-down-time expires and the error is cleared on the interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* bpdu-guard-recovery-time-expires *(number | date-and-time-delta)*
Tree	bpdu-guard-recovery-time-expires
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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designated-bridge *string*

Description	The bridge identifier of the designated bridge The bridge identifer of the bridge recorded as the root in the configuration BPDUs transmitted by the designated bridge for the segment to which the port is attached. format: bridge-priority.extended-system-id.mac-address
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* designated-bridge *string*
Tree	designated-bridge
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port *number*

Description	The identifier of the port on the designated bridge
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* designated-port *number*
Tree	designated-port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port-num *number*

Description	The Port number of the port on the Designated Bridge for this port's segment
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* designated-port-num *number*
Tree	designated-port-num
Range	0 to 4094
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port-priority *number*

Description	The Port priority of the port on the Designated Bridge for this port's segment

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Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* designated-port-priority *number*
Tree	designated-port-priority
Range	0 to 255
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

edge-port *identityref*

Description	Enter the edge-port context
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* edge-port *identityref*
Tree	edge-port
Default	EDGE_AUTO
Options	• EDGE_ENABLE Enable edge port for the bridge port • EDGE_DISABLE Disable edge port for the bridge port • EDGE_AUTO Auto detect edge port for the bridge port
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forward-transitions *number*

Description	The number of times this port has transitioned from the Learning state to the Forwarding state
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* forward-transitions *number*
Tree	forward-transitions
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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guard *keyword*

Description Enable Guard

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* guard *keyword*

Tree guard

Default NONE

Options

- ROOT

  Enable root guard

- NONE

  Disable guard

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

inside-region *boolean*

Description Indicates if Mst instance interface is inside MST region

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* inside-region *boolean*

Tree inside-region

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface-ref

Description Enter the interface-ref context

Reference to an interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Reference to a base interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* interface-ref interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

link-type *keyword*

Description Indicates the number of bridges behind the subinterface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* link-type *keyword*

Tree link-type

Default P2P

Options

- P2P

  Point-to-Point link
- SHARED

  Shared link

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-instance mst-id *reference*

Description List of the mstp instances

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Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference*
Tree	mst-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-id *reference*

Description	In an MSTP Bridge, an MST-ID, is used to identify a multiple-spanning-tree-instance
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference*
Reference	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-bridge *string*

Description	The bridge identifier of the designated bridge The bridge identifer of the bridge recorded as the root in the configuration BPDUs transmitted by the designated bridge for the segment to which the port is attached. format: bridge-priority.extended-system-id.mac-address
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* designated-bridge *string*
Tree	designated-bridge
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port *number*

Description	The identifier of the port on the designated bridge
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* designated-port *number*
Tree	designated-port
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port-num *number*

Description	The Port number of the port on the Designated Bridge for this port's segment
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* designated-port-num *number*
Tree	designated-port-num
Range	0 to 4094
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

designated-port-priority *number*

Description	The Port priority of the port on the Designated Bridge for this port's segment
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* designated-port-priority *number*
Tree	designated-port-priority
Range	0 to 255
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

forward-transitions *number*

Description	The number of times this port has transitioned from the Learning state to the Forwarding state
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* forward-transitions *number*
Tree	forward-transitions
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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mst-path-cost *number*

Description	Indicates the path cost of the interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* mst-path-cost *number*
Tree	mst-path-cost
Range	1 to 200000000
Default	10
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-port-priority *number*

Description	Indicates the port priority of the interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* mst-port-priority *number*
Tree	mst-port-priority
Range	0 to 255
Default	128
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-bpdu-encap *keyword*

Description	The operating encsapsulation type used on BPDUs sent and received on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-bpdu-encap *keyword*
Tree	oper-bpdu-encap
Options	• dot1d • pvst
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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oper-edge *identityref*

Description	The protocol running on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-edge *identityref*
Tree	oper-edge
Options	• EDGE_ENABLE Enable edge port for the bridge port • EDGE_DISABLE Disable edge port for the bridge port • EDGE_AUTO Auto detect edge port for the bridge port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-mst-port-priority *number*

Description	Mst instance interface stp operational Port Priority
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-mst-port-priority *number*
Tree	oper-mst-port-priority
Range	0 to 255
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-port-priority *number*

Description	Interface Stp operational Port Priority
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-port-priority *number*
Tree	oper-port-priority
Range	0 to 255
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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oper-protocol *keyword*

Description The protocol running on this interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-protocol *keyword*

Tree oper-protocol

Options

- stp
- rstp
- mstp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-state *keyword*

Description Stp Operational status

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

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Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-num *number*

Description Interface Stp Port Number

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* port-num *number*

Tree port-num

Range 0 to 4094

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-role *identityref*

Description Interface Stp Port role

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* port-role *identityref*

Tree port-role

Options

- ROOT

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Root port role is assigned to the port that receives the best BPDU on a bridge.

- DESIGNATED

  Designated port role is assigned to the port that can send the best BPDU on the segment to which it is connected.

- ALTERNATE

  Alternate port role is assigned to the port that receives more useful BPDUs from another bridge and is blocked

- BACKUP

  Backup port role is assigned to the port that receives more useful BPDUs from the same bridge it is on and is blocked

- MASTER

  Master port role is assigned to the port that connects an MST Region to the Root Bridge of the entire network

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-state *identityref*

Description Interface Stp Port state

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* mst-instance mst-id *reference* port-state *identityref*

Tree port-state

Options

- LISTENING

  Listening port indicates port that is processing BPDUs and building active toplogy

- LEARNING

  Learning port indicates port that is building bridging tables; no forwarding of data

- BLOCKING

  Blocking port indicates port that would cause a loop if it were sending data. It only receivs BPDUs, until a topology change removes the possibliity of a loop

- FORWARDING

  Forwarding port indicates port that is operating normally, sending and receiving data

- DISCARDING

  Discarding port indicates port that is receiving and discarding data

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- DISABLED

  Disabled Port is the port that is isolated from network, either administratively down or failed

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-bpdu-encap *keyword*

Description The operating encsapsulation type used on BPDUs sent and received on this interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* oper-bpdu-encap *keyword*

Tree oper-bpdu-encap

Options

- dot1d
- pvst

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-edge *identityref*

Description The protocol running on this interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* oper-edge *identityref*

Tree oper-edge

Options

- EDGE_ENABLE

  Enable edge port for the bridge port

- EDGE_DISABLE

  Disable edge port for the bridge port

- EDGE_AUTO

  Auto detect edge port for the bridge port

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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oper-port-priority *number*

Description Interface Stp operational Port Priority

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* oper-port-priority *number*

Tree oper-port-priority

Range 0 to 255

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-protocol *keyword*

Description The protocol running on this interface

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* oper-protocol *keyword*

Tree oper-protocol

Options

- stp
- rstp
- mstp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-state *keyword*

Description Stp Operational status

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

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Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

path-cost *number*

Description The interface path-cost is used by STP to calculate the path cost to the root bridge

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* path-cost *number*

Tree path-cost

Range 1 to 200000000

Default 10

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Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-num *number*

Description	Interface Stp Port Number
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* port-num *number*
Tree	port-num
Range	0 to 4094
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-number *number*

Description	Port Number associated with this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* port-number *number*
Tree	port-number
Range	1 to 2047
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-role *identityref*

Description	Interface Stp Port role
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* port-role *identityref*
Tree	port-role
Options	• ROOT Root port role is assigned to the port that receives the best BPDU on a bridge. • DESIGNATED Designated port role is assigned to the port that can send the best BPDU on the segment to which it is connected.

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- ALTERNATE

  Alternate port role is assigned to the port that receives more useful BPDUs from another bridge and is blocked

- BACKUP

  Backup port role is assigned to the port that receives more useful BPDUs from the same bridge it is on and is blocked

- MASTER

  Master port role is assigned to the port that connects an MST Region to the Root Bridge of the entire network

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

port-state *identityref*

Description Interface Stp Port state

Context system network-instance protocols mgmt-stp name *string* interface interface-name *string* port-state *identityref*

Tree port-state

Options

- LISTENING

  Listening port indicates port that is processing BPDUs and building active toplogy

- LEARNING

  Learning port indicates port that is building bridging tables; no forwarding of data

- BLOCKING

  Blocking port indicates port that would cause a loop if it were sending data. It only receivs BPDUs, until a topology change removes the possibliity of a loop

- FORWARDING

  Forwarding port indicates port that is operating normally, sending and receiving data

- DISCARDING

  Discarding port indicates port that is receiving and discarding data

- DISABLED

  Disabled Port is the port that is isolated from network, either administratively down or failed

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

priority *number*

Description	Priority value coupled with port number forms 16-bit port-identifier field
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* priority *number*
Tree	priority
Range	0 to 255
Default	128
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context Packet transmition statistics
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bad-bpdus-received *number*

Description	The number of Invalid BPDUs received
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics bad-bpdus-received *number*
Tree	bad-bpdus-received
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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cfg-bpdus-received *number*

Description	The number of configuration BPDUs received on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics cfg-bpdus-received *number*
Tree	cfg-bpdus-received
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

cfg-bpdus-transmitted *number*

Description	The number of configuration BPDUs sent on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics cfg-bpdus-transmitted *number*
Tree	cfg-bpdus-transmitted
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-bpdus-received *number*

Description	The number of MST BPDUs received on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics mst-bpdus-received *number*
Tree	mst-bpdus-received
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-bpdus-transmitted *number*

Description	The number of MST BPDUs sent on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics mst-bpdus-transmitted *number*

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Tree	mst-bpdus-transmitted
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

rst-bpdus-received *number*

Description	The number of RST BPDUs received on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics rst-bpdus-received *number*
Tree	rst-bpdus-received
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

rst-bpdus-transmitted *number*

Description	The number of RST BPDUs sent on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics rst-bpdus-transmitted *number*
Tree	rst-bpdus-transmitted
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tc-bit-bpdus-received *number*

Description	The number of BPDUs received on this interface with the Topology Change bit set
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics tc-bit-bpdus-received *number*
Tree	tc-bit-bpdus-received
Default	0
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tc-bit-bpdus-transmitted *number*

Description	The number of BPDUs sent on this interface with the Topology Change bit set
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics tc-bit-bpdus-transmitted *number*
Tree	tc-bit-bpdus-transmitted
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tcn-bpdus-received *number*

Description	The number of topology change notification BPDUs received on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics tcn-bpdus-received *number*
Tree	tcn-bpdus-received
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

tcn-bpdus-transmitted *number*

Description	The number of topology change notification BPDUs sent on this interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics tcn-bpdus-transmitted *number*
Tree	tcn-bpdus-transmitted
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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max-age *number*

Description	The maximum age of the information transmitted by the bridge when it is the root bridge
Context	system network-instance protocols mgmt-stp name *string* max-age *number*
Tree	max-age
Range	6 to 40
Default	20
Units	seconds
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mode *keyword*

Description	Protocol Mode Supported
Context	system network-instance protocols mgmt-stp name *string* mode *keyword*
Tree	mode
Default	mstp
Options	• rstp • mstp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-instance mst-id *number*

Description	List of the mstp instances
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number*
Tree	mst-instance
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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mst-id *number*

Description	In an MSTP Bridge, an MSTID, is used to identify a multiple-spanning-tree-instance.
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number*
Range	1 to 15
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

internal-root-cost *number*

Description	The cost of the path to the regional root bridge as seen from this bridge
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* internal-root-cost *number*
Tree	internal-root-cost
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-priority *number*

Description	Priority component of the Bridge Identifier
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* mst-priority *number*
Tree	mst-priority
Range	0 to 61440
Default	32768
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

regional-root *string*

Description	The bridge identifier of the regional root determined by the Mst Instance STP
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* regional-root *string*

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Tree	regional-root
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

remaining-hop-count *number*

Description	The value specifies the remaining number of hops.
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* remaining-hop-count *number*
Tree	remaining-hop-count
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

root-port *number*

Description	The port number of port which offers the lowest cost path from this bridge to the regional root bridge.
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* root-port *number*
Tree	root-port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

vlan-range *string*

Description	An inclusive range mapped to the MST instance specified as x..y where x and y are valid VLAN IDs (1 <= vlan-id <= 4094)
Context	system network-instance protocols mgmt-stp name *string* mst-instance mst-id *number* vlan-range *string*
Tree	vlan-range
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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mst-max-hops *number*

Description	The max hop determines the number of bridges in an MST region that a BPDU can traverse before it is discarded
Context	system network-instance protocols mgmt-stp name *string* mst-max-hops *number*
Tree	mst-max-hops
Range	1 to 255
Default	20
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-name *string*

Description	The Configuration Name in the MST Configuration Identifier
Context	system network-instance protocols mgmt-stp name *string* mst-name *string*
Tree	mst-name
String Length	1 to 32
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

mst-revision *number*

Description	The Revision Level in the MST Configuration Identifier
Context	system network-instance protocols mgmt-stp name *string* mst-revision *number*
Tree	mst-revision
Range	0 to 65535
Default	0
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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oper-forward-delay *number*

Description	The amount of time it takes to change its state when moving towards the forwarding state
Context	system network-instance protocols mgmt-stp name *string* oper-forward-delay *number*
Tree	oper-forward-delay
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-hello-time *number*

Description	The amount of time between the transmission of Configuration BPDUs
Context	system network-instance protocols mgmt-stp name *string* oper-hello-time *number*
Tree	oper-hello-time
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-max-age *number*

Description	The maximum age of the stp information learned
Context	system network-instance protocols mgmt-stp name *string* oper-max-age *number*
Tree	oper-max-age
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

oper-state *keyword*

Description	Stp Operational status
Context	system network-instance protocols mgmt-stp name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational

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- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

root-cost *number*

Description The cost of the path to the root as seen from this bridge

Context system network-instance protocols mgmt-stp name *string* root-cost *number*

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Tree	root-cost
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

root-port *number*

Description	The port number of the port which offers the lowest cost path from this bridge to the root bridge
Context	system network-instance protocols mgmt-stp name *string* root-port *number*
Tree	root-port
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

time-since-topology-change *string*

Description	Time since last topology change was detected by bridge entity
Context	system network-instance protocols mgmt-stp name *string* time-since-topology-change *string*
Tree	time-since-topology-change
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

topology-change-active *boolean*

Description	Indication topology change is currently in progress
Context	system network-instance protocols mgmt-stp name *string* topology-change-active *boolean*
Tree	topology-change-active
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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topology-changes *number*

Description The total number of topology changes detected by this bridge since the management entity was last reset or initialized

Context system network-instance protocols mgmt-stp name *string* topology-changes *number*

Tree topology-changes

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

trace-options

Description Enter the trace-options context

Interface Stp debug trace options

Context system network-instance protocols mgmt-stp name *string* trace-options

Tree trace-options

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

trace *keyword*

Description List of tracing options

Context system network-instance protocols mgmt-stp name *string* trace-options trace *keyword*

Tree trace

Options

- all

  Trace all events and packets
- bpdu

  Trace stp rcvd/txmitted BPDU events
- connectivity

  Trace stp core-connectivity events
- exception

  Trace stp exception events
- fsm-state

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Trace stp fsm-state-changes events

- fsm-timers

  Trace stp fsm-timer events

- port-role

  Trace stp port-role events

- port-state

  Trace stp port-state events

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

vxlan

Description Enable the vxlan context

Context system network-instance protocols vxlan

Tree vxlan

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

router-mac-address *string*

Description The router MAC address for VXLAN across all routed vxlan-interfaces

Context system network-instance protocols vxlan router-mac-address *string*

Tree router-mac-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-vtep-security *boolean*

Description Whether to enable vxlan source vtep security for all vxlan-interfaces

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Context	system network-instance protocols vxlan source-vtep-security *boolean*
Tree	source-vtep-security
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ntp

Description	Top-level container for NTP configuration and state
Context	system ntp
Tree	ntp
Configurable	True
Platforms	Supported on all platforms except IMGMT

admin-state *keyword*

Description	Enables the system NTP client and indicates that the system should attempt to synchronize the clock
Context	system ntp admin-state *keyword*
Tree	admin-state
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms except IMGMT

network-instance *reference*

Description	Reference to a configured network-instance
Context	system ntp network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

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ntp-key key-id *number*

Description List of NTP authentication keys

Context system ntp ntp-key key-id *number*

Tree ntp-key

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-id *number*

Description The identifier of the secret key. This value must match between client and server

Context system ntp ntp-key key-id *number*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-type *identityref*

Description Encryption type for this NTP key

Context system ntp ntp-key key-id *number* key-type *identityref*

Tree key-type

Options

- NTP_AUTH_MD5

  MD5 encryption method
- NTP_AUTH_SHA1

  SHA1 encryption method
- NTP_AUTH_SHA256

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SHA256 encryption method

- NTP_AUTH_SHA384

  SHA384 encryption method
- NTP_AUTH_SHA512

  SHA512 encryption method
- NTP_AUTH_AES_CBC_128

  AES-CBC-128 encryption method
- NTP_AUTH_AES_CBC_256

  AES-CBC-256 encryption method

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-value *string*

Description Authentication key value. Stored encrypted

Context system ntp ntp-key key-id *number* key-value *string*

Tree key-value

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Details the operational state of the NTP client

Context system ntp oper-state *keyword*

Tree oper-state

Options

- up

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Component or process is operational

- down

  Component or process is not operational

- empty

  Component slot is empty

- downloading

  Component is downloading image into memory

- booting

  Component is booting downloaded image

- starting

  Component image operational, application processes starting

- failed

  Component or process has failed

- synchronizing

  Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms except IMGMT

server address *(ipv4 | ipv6 | domain-name)*

Description List of NTP servers to use for system clock synchronization

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Context	system ntp server address *(ipv4 | ipv6 | domain-name)*
Tree	server
Configurable	True
Platforms	Supported on all platforms except IMGMT

address *(ipv4 | ipv6 | domain-name)*

Description	Domain or IP address of the NTP server IP address may be either IPv4 or IPv6. Domain resolution requires working DNS configuration in the same network-instance.
Context	system ntp server address *(ipv4 | ipv6 | domain-name)*
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms except IMGMT

iburst *boolean*

Description	Indicates whether this server should enable burst synchronization or not iburst, or initial burst, improves the time taken for initial synchronization by sending a burst of eight packets instead of the usual one, these packets are spaced by a two second delay
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* iburst *boolean*
Tree	iburst
Default	false
Configurable	True
Platforms	Supported on all platforms except IMGMT

jitter *number*

Description	Measurement of the variance in latency on the network
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* jitter *number*
Tree	jitter
Units	milliseconds
Configurable	False
Platforms	Supported on all platforms except IMGMT

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key-id *reference*

Description	Reference to the NTP symmetric key to be used for this server entry The same key, type, and value must be used by the client and server.
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* key-id *reference*
Tree	key-id
Reference	system ntp ntp-key key-id *number*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Reference to a configured network-instance
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

nts *boolean*

Description	Enable Network Time Security (NTS) for this server entry An optional TLS profile can be associated with an appropriate CA
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* nts *boolean*
Tree	nts
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset *number*

Description	Estimate of the current time offset from the peer This is the time difference between the local and reference clock.
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* offset *number*
Tree	offset
Units	microseconds
Configurable	False
Platforms	Supported on all platforms except IMGMT

poll-interval *number*

Description	Polling interval of the peer
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* poll-interval *number*
Tree	poll-interval
Units	seconds
Configurable	False
Platforms	Supported on all platforms except IMGMT

prefer *boolean*

Description	Indicates whether this server should be preferred or not All other things being equal, this host will be chosen for synchronization among a set of correctly operating NTP servers
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* prefer *boolean*
Tree	prefer
Default	false
Configurable	True
Platforms	Supported on all platforms except IMGMT

root-delay *number*

Description	The round-trip delay to the server

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Context	system ntp server address *(ipv4 | ipv6 | domain-name)* root-delay *number*
Tree	root-delay
Units	milliseconds
Configurable	False
Platforms	Supported on all platforms except IMGMT

root-dispersion *number*

Description	Dispersion (epsilon) represents the maximum error inherent in the measurement
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* root-dispersion *number*
Tree	root-dispersion
Units	milliseconds
Configurable	False
Platforms	Supported on all platforms except IMGMT

source-address *(ipv4-address \| ipv6-address)*

Description	Source address for NTP to use for messages sent to a remote server
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

stratum *number*

Description	Indicates the level of the server in the NTP hierarchy as number increases, the accuracy is degraded. Primary servers are stratum 1 while a maximum value of 16 indicates unsynchronized. The values have the following meanings: 0 unspecified or invalid 1 primary server (e.g., equipped with a GPS receiver) 2-15 secondary server (via NTP) 16 unsynchronized 17-255 reserved
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* stratum *number*
Tree	stratum
Configurable	False
Platforms	Supported on all platforms except IMGMT

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tls-profile *reference*

Description	Reference to a TLS profile to use for NTS If not configured, the default system CA certificates will be used.
Context	system ntp server address *(ipv4 | ipv6 | domain-name)* tls-profile *reference*
Tree	tls-profile
Reference	system tls profile name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address \| ipv6-address)*

Description	Source address for NTP to use for messages sent to a remote server
Context	system ntp source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

synchronized *(ipv4 \| ipv6 \| domain-name \| string)*

Description	Address of the NTP server that the local client is synchronized to This field is set to 'unsynchronized', if the local client is not synchronized
Context	system ntp synchronized *(ipv4 | ipv6 | domain-name | string)*
Tree	synchronized
String Length	1 to 253
Configurable	False
Platforms	Supported on all platforms except IMGMT

ntp-server name *string*

Description	Enter the ntp-server list instance

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Context	system ntp-server name *string*
Tree	ntp-server
Configurable	True
Platforms	Supported on all platforms except SERVER AND NOT PLATFORM

name *string*

Description	User-provided name of this NTP server instance
Context	system ntp-server name *string*
String Length	1 to 247
Configurable	True
Platforms	Supported on all platforms except SERVER AND NOT PLATFORM

admin-state *keyword*

Description	Enable or disable the NTP server instance
Context	system ntp-server name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms except SERVER AND NOT PLATFORM

allow-subnet *(ipv4-prefix | ipv6-prefix)*

Description	List of IP subnets (IP address and mask) to allow NTP requests from
Context	system ntp-server name *string* allow-subnet *(ipv4-prefix | ipv6-prefix)*
Tree	allow-subnet
Configurable	True
Platforms	Supported on all platforms except SERVER AND NOT PLATFORM

local-reference *boolean*

Description	NTP server will appear synchronized to downstream clients even when upstream source not available

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Context	system ntp-server name *string* local-reference *boolean*
Tree	local-reference
Default	false
Configurable	True
Platforms	Supported on all platforms except SERVER AND NOT PLATFORM

network-instance *reference*

Description	Network instance to run the NTP server in
Context	system ntp-server name *string* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

oper-state *keyword*

Description	Operational state of the NTP server instance
Context	system ntp-server name *string* oper-state *keyword*
Tree	oper-state
Options	• up Component or process is operational • down Component or process is not operational • empty Component slot is empty • downloading Component is downloading image into memory • booting Component is booting downloaded image • starting Component image operational, application processes starting • failed Component or process has failed • synchronizing Component is currently being synchronized

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- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms except SERVER AND NOT PLATFORM

port *number*

Description Port the NTP server instance will listen on for incoming connections

Context system ntp-server name *string* port *number*

Tree port

Range 0 to 65535

Default 123

Configurable True

Platforms Supported on all platforms except SERVER AND NOT PLATFORM

source-address *(ipv4-address | ipv6-address)*

Description List of IP addresses for the NTP server to listen on within the network-instance

Context system ntp-server name *string* source-address *(ipv4-address | ipv6-address)*

Tree source-address

Configurable True

Platforms Supported on all platforms except SERVER AND NOT PLATFORM

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packet-link-qualification

Description Enter the packet-link-qualification context

Top-level container for gNOI Packet Link Qualification profiles

Context system packet-link-qualification

Tree packet-link-qualification

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

profile name *string*

Description List of configured Packet Link Qualification profiles

Context system packet-link-qualification profile name *string*

Tree profile

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name of the Packet Link Qualification profile

Context system packet-link-qualification profile name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

asic-loopback

Description ASIC loopback

Use the ASIC loopback mode

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Context	system packet-link-qualification profile name *string* asic-loopback
Tree	asic-loopback
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ntp

Description	Enter the ntp context
Context	system packet-link-qualification profile name *string* ntp
Tree	ntp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

end-time *string*

Description	End time of the test
Context	system packet-link-qualification profile name *string* ntp end-time *string*
Tree	end-time
String Length	20 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-time *string*

Description	Start time of the test
Context	system packet-link-qualification profile name *string* ntp start-time *string*
Tree	start-time
String Length	20 to 32
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

teardown-time *string*

Description	Time at which the test should be torn down
Context	system packet-link-qualification profile name *string* ntp teardown-time *string*
Tree	teardown-time
String Length	20 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-generator

Description	Enter the packet-generator context Packet generator endpoint
Context	system packet-link-qualification profile name *string* packet-generator
Tree	packet-generator
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-rate *number*

Description	Packet rate of the packet generator
Context	system packet-link-qualification profile name *string* packet-generator packet-rate *number*
Tree	packet-rate
Range	1 to 4294967295
Units	packets per second
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-size *number*

Description	Packet size (in bytes) of the packet generator
Context	system packet-link-qualification profile name *string* packet-generator packet-size *number*
Tree	packet-size
Range	64 to 8184
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpc

Description	Enter the rpc context
Context	system packet-link-qualification profile name *string* rpc
Tree	rpc
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description	Duration of the test
Context	system packet-link-qualification profile name *string* rpc duration *number*
Tree	duration
Range	1 to 4294967295
Units	seconds
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

post-sync-duration *number*

Description	Duration of the post-sync phase
Context	system packet-link-qualification profile name *string* rpc post-sync-duration *number*
Tree	post-sync-duration
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pre-sync-duration *number*

Description	Duration of the pre-sync phase
Context	system packet-link-qualification profile name *string* rpc pre-sync-duration *number*
Tree	pre-sync-duration
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

setup-duration *number*

Description	Duration of the setup phase
Context	system packet-link-qualification profile name *string* rpc setup-duration *number*
Tree	setup-duration
Range	25 to 4294967295
Units	seconds

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

teardown-duration *number*

Description	Duration of the teardown phase
Context	system packet-link-qualification profile name *string* rpc teardown-duration *number*
Tree	teardown-duration
Range	15 to 4294967295
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protection-policies

Description	Container with protection policies
Context	system protection-policies
Tree	protection-policies
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy protection-policy-name *string*

Description	Enter the policy list instance
Context	system protection-policies policy protection-policy-name *string*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protection-policy-name *string*

Description	A unique identifying name for the protection policy
Context	system protection-policies policy protection-policy-name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revert-timer *(number | keyword)*

Description	Revert timer for the segment-list. Timer till a revert to primary/best path after it is recovered from a failure. In case of uncolored te-policy, applies to primary segment-list and in case of colored te-policy applies to best candidate path. The default is 0 seconds.
Context	system protection-policies policy protection-policy-name *string* revert-timer *(number | keyword)*
Tree	revert-timer
Range	0 to 4320
Default	disable
Units	seconds
Options	• disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

seamless-bfd

Description	When present, this node attempts to setup a seamless BFD session on every segment-list of every SR policy that uses protection-policy, but only if that SR policy is a primary or standby (secondary) candidate path. The transition of an SBFD session from up to down is a trigger for rerouting traffic around a failed primary path.
Context	system protection-policies policy protection-policy-name *string* seamless-bfd
Tree	seamless-bfd

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

desired-minimum-transmit-interval *number*

Description	The minimum interval between transmission of BFD control packets This value is advertised to the peer, however the actual interval used is specified by taking the maximum of desired-minimum-transmit-interval and the value of the remote required-minimum-receive interval value. This value is specified as an integer number of microseconds.
Context	system protection-policies policy protection-policy-name *string* seamless-bfd desired-minimum-transmit-interval *number*
Tree	desired-minimum-transmit-interval
Range	10000 to 100000000
Default	1000000
Units	microseconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

detection-multiplier *number*

Description	The number of packets that must be missed to declare this session as down The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.
Context	system protection-policies policy protection-policy-name *string* seamless-bfd detection-multiplier *number*
Tree	detection-multiplier
Range	3 to 20
Default	3
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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hold-down-timer *(number | keyword)*

Description Specifies a hold-down timer value when seamless-bfd is enabled

The timer is started when the number of S-BFD sessions that are up drops below the threshold. The TE-policy path is not considered to be up again until the hold-down timer has expired and the number of S-BFD sessions that are up equals or exceeds the threshold. A grace preiod after session down such that sBFD session flaps does not impact active path.

The default is 4 seconds.

Context system protection-policies policy protection-policy-name *string* seamless-bfd hold-down-timer *(number | keyword)*

Tree hold-down-timer

Range 1 to 500

Default 4

Units seconds

Options
- disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mode *keyword*

Description Specifies requested protection method

ecmp-protected is valid for colored te-policies and programs all the valid segment lists and manages their availability using seamless-BFD for each segment list. Switchover between candidate paths is triggered by the node if number of segment-lists up is less than the threshold on the active policy.ecmp-protected is not valid for uncolored sr-policies.

linear is valid for uncolored te-policies and triggers fail-over among active segment-lists, primary to standby / secondary.

Context system protection-policies policy protection-policy-name *string* seamless-bfd mode *keyword*

Tree mode

Default monitored

Options
- monitored
- ecmp-protected
- linear

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

threshold *number*

Description	Minimum number of up seamless-BFD sessions for up te-policy
Context	system protection-policies policy protection-policy-name *string* seamless-bfd threshold *number*
Tree	threshold
Range	1 to 32
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wait-for-up-timer *number*

Description	Specifies a wait-for-up timer value when seamless-bfd is enabled This timer takes effect if BFD does not come up, or BFD goes from up to down. The timer is started when BFD is first enabled on a segment-list or BFD transitions from up to down. When the timer expires if BFD is not yet come up, then the path is torn down by removing it from the TTM and the PI and the retry timer is started. The default is 4 seconds.
Context	system protection-policies policy protection-policy-name *string* seamless-bfd wait-for-up-timer *number*
Tree	wait-for-up-timer
Range	1 to 1800
Default	4
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocols

Description	Enter the protocols context The routing protocols that are supported by the system
Context	system protocols
Tree	protocols
Configurable	True
Platforms	Supported on all platforms except IMGMT

bgp

Description	Enable the bgp context
Context	system protocols bgp
Tree	bgp
Configurable	True
Platforms	Supported on all platforms except IMGMT

restart-max-wait *number*

Description	The maximum amount of time that BGP will wait to receive End of RIB markers from all peers and for all address families that were up prior to restart. After this time elapses BGP declares that convergence has occurred and sends its own EOR markers to its peers.
Context	system protocols bgp restart-max-wait *number*
Tree	restart-max-wait
Range	0 to 3600
Default	600
Units	seconds
Configurable	True
Platforms	Supported on all platforms except IMGMT

stp

Description	Enable the stp context
Context	system protocols stp

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Tree	stp
Configurable	True
Platforms	Supported on all platforms except IMGMT

bpdu-guard-recovery-time *(keyword | number)*

Description	The amount of time that an interface will be operationally down due to Bpdu-guard-error. After this time elapses Stp Bpdu Guard Error will be cleared and the sub Interface will become operationally up.
Context	system protocols stp bpdu-guard-recovery-time *(keyword | number)*
Tree	bpdu-guard-recovery-time
Range	1 to 10
Default	5
Units	minutes
Options	• indefinite
Configurable	True
Platforms	Supported on all platforms except IMGMT

ra-guard-policy name *string*

Description	List containing RA Guard Policy and parameters
Context	system ra-guard-policy name *string*
Tree	ra-guard-policy
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5
Max. Elements	64

name *string*

Description	RA Guard Policy name
Context	system ra-guard-policy name *string*
String Length	1 to 255
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

action *keyword*

Description	Describes the RA Guard Policy action for RA Messages matching the specified attributes. RA Messages not matching the specified attributes will be handled in the opposite manner.
Context	system ra-guard-policy name *string* action *keyword*
Tree	action
Default	discard
Options	• accept • discard
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

advertise-prefix-set *reference*

Description	Reference to a prefix set to match advertised address within RA message
Context	system ra-guard-policy name *string* advertise-prefix-set *reference*
Tree	advertise-prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

hop-limit *number*

Description	Verifies the minimum advertised hop count limit, RA message value must e equal to or greater than hop-limit. If not specified the verification is skipped.
Context	system ra-guard-policy name *string* hop-limit *number*
Tree	hop-limit
Range	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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managed-config-flag *boolean*

Description	Causes the RA Guard policy to match IPv6 RA messages with the M (Managed address) flag set. If not specified the verification is skipped.
Context	system ra-guard-policy name *string* managed-config-flag *boolean*
Tree	managed-config-flag
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

other-config-flag *boolean*

Description	Causes the RA Guard policy to match IPv6 RA messages with the O (Other config) flag set. If not specified the verification is skipped.
Context	system ra-guard-policy name *string* other-config-flag *boolean*
Tree	other-config-flag
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

router-preference *keyword*

Description	Verifies that the advertised default router preference parameter value is equal to or less than the specified limit. If not specified the verification is skipped.
Context	system ra-guard-policy name *string* router-preference *keyword*
Tree	router-preference
Options	• high • medium • low
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

source-prefix-set *reference*

Description	Reference to a prefix set to match RA source address. If not specified the verification is skipped.

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Context	system ra-guard-policy name *string* source-prefix-set *reference*
Tree	source-prefix-set
Reference	routing-policy prefix-set name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

sflow

Description	Context to configure sFlow Agent parameters and report sFlow state
Context	system sflow
Tree	sflow
Configurable	True
Platforms	Supported on all platforms except IMGMT

admin-state *keyword*

Description	Administratively enable or disable sFlow for the system
Context	system sflow admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms except IMGMT

collector collector-id *number*

Description	List of sFlow collectors to which sFlow sample data is sent
Context	system sflow collector collector-id *number*
Tree	collector
Configurable	True
Platforms	Supported on all platforms except IMGMT
Max. Elements	8

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collector-id *number*

Description	Specify the collector ID
Context	system sflow collector collector-id *number*
Range	1 to 8
Configurable	True
Platforms	Supported on all platforms except IMGMT

collector-address *(ipv4-address | ipv6-address)*

Description	The IP address for an sFlow collector
Context	system sflow collector collector-id *number* collector-address *(ipv4-address | ipv6-address)*
Tree	collector-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

network-instance *reference*

Description	Reference to a configured network-instance
Context	system sflow collector collector-id *number* network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	True
Platforms	Supported on all platforms except IMGMT

next-hop *(ipv4-address | ipv6-address)*

Description	Specifies the active IP next hop used to reach the associated collector
Context	system sflow collector collector-id *number* next-hop *(ipv4-address | ipv6-address)*
Tree	next-hop
Configurable	False
Platforms	Supported on all platforms except IMGMT

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port *number*

Description	Specifies the destination UDP port number to be used in sFlow packets
Context	system sflow collector collector-id *number* port *number*
Tree	port
Default	6343
Configurable	True
Platforms	Supported on all platforms except IMGMT

source-address *(ipv4-address | ipv6-address)*

Description	Specifies the IP address to be used as the source address in sFlow packets
Context	system sflow collector collector-id *number* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

dscp *(number | keyword)*

Description	Specify sFlow DSCP value This value specifies the DSCP value used in IP header of samples sent to the associated collectors.
Context	system sflow dscp *(number | keyword)*
Tree	dscp
Range	0 to 63
Default	0
Options	• CS0 • LE • CS1 • AF11 • AF12 • AF13 • CS2 • AF21 • AF22

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- AF23
- CS3
- AF31
- AF32
- AF33
- CS4
- AF41
- AF42
- AF43
- CS5
- EF
- CS6
- CS7

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress-sample-rate *number*

Description Specify sFlow egress sample rate

This value is the rate at which traffic will be sampled at a rate of 1:N sent packets.

Context system sflow egress-sample-rate *number*

Tree egress-sample-rate

Range 0 to 2000000

Default 0

Configurable True

Platforms 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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forwarding-class *reference*

Description	The forwarding class When value not specified, the sgt-qos value will be used
Context	system sflow forwarding-class *reference*
Tree	forwarding-class
Reference	qos forwarding-classes forwarding-class name *string*
Configurable	True
Platforms	Supported on all platforms

gnpsi-max-datagram-size *number*

Description	Specify maximum sFlow datagram size when using gNPSI as the transport This value specifies the maximum size of the datagram used to send sFlow samples to collectors via gNPSI.
Context	system sflow gnpsi-max-datagram-size *number*
Tree	gnpsi-max-datagram-size
Range	576 to 9446
Default	1468
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-udp-checksum *keyword*

Description	Value to be placed in the UDP transport checksum for IPv6 sFlow sample messages. zero : The UDP checksum is set to 0x0 all-ones: The UDP checksum is set to 0xFFFF
Context	system sflow ipv6-udp-checksum *keyword*
Tree	ipv6-udp-checksum
Default	all-ones
Options	• zero For IPv6 sFlow sample messages, the UDP checksum is set to 0x0 • all-ones For IPv6 sFlow sample messages, the UDP checksum is set to 0xFFFF
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sample-rate *number*

Description	Specify sFlow sample rate This value is the rate at which traffic will be sampled at a rate of 1:N received packets.
Context	system sflow sample-rate *number*
Tree	sample-rate
Range	0 to 2000000
Default	10000
Configurable	True
Platforms	Supported on all platforms except IMGMT

sample-size *number*

Description	Specify sFlow sample size This value specifies the number of bytes the sFlow agent samples from each frame.
Context	system sflow sample-size *number*
Tree	sample-size
Range	256 | 512
Default	256
Configurable	True
Platforms	Supported on all platforms except IMGMT

source-address *(ipv4-address | ipv6-address)*

Description	Specifies the IP address to be used as the source address in sFlow packets
Context	system sflow source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

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statistics

Description	Enter the statistics context
Context	system sflow statistics
Tree	statistics
Configurable	False
Platforms	Supported on all platforms except IMGMT

total-egress-samples-taken *number*

Description	Total number of sFlow Egress samples taken
Context	system sflow statistics total-egress-samples-taken *number*
Tree	total-egress-samples-taken
Default	0
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

total-ingress-samples-taken *number*

Description	Total number of sFlow Ingress samples taken
Context	system sflow statistics total-ingress-samples-taken *number*
Tree	total-ingress-samples-taken
Default	0
Configurable	False
Platforms	7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64

total-offered-packets *number*

Description	Total number of packets subject to sFlow sampling
Context	system sflow statistics total-offered-packets *number*
Tree	total-offered-packets
Default	0
Configurable	False
Platforms	Supported on all platforms except IMGMT

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total-samples-taken *number*

Description	Total number of sFlow samples taken
Context	system sflow statistics total-samples-taken *number*
Tree	total-samples-taken
Default	0
Configurable	False
Platforms	Supported on all platforms except IMGMT

total-sent-packets *number*

Description	Total number of sFlow packets sent to collectors
Context	system sflow statistics total-sent-packets *number*
Tree	total-sent-packets
Default	0
Configurable	False
Platforms	Supported on all platforms except IMGMT

transport *keyword*

Description	Specifies sFlow samples should be exported via the gNPSI gRPC server or collector
Context	system sflow transport *keyword*
Tree	transport
Default	collector
Options	• collector sflow flow data is transported via configured collectors • gnpsi sflow flow data is transported via established gNPSI connection
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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snmp

Description	Top-level container for SNMP configuration and state
Context	system snmp
Tree	snmp
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-group name *string*

Description	List of configured SNMP access-groups
Context	system snmp access-group name *string*
Tree	access-group
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the SNMP access-group
Context	system snmp access-group name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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admin-state *keyword*

Description Enables the SNMP access-group

Context system snmp access-group name *string* admin-state *keyword*

Tree admin-state

Default enable

Options
- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

community-entry name *string*

Description List of configured SNMPv2 communities

Context system snmp access-group name *string* community-entry name *string*

Tree community-entry

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Unique name for the SNMPv2 community

Context system snmp access-group name *string* community-entry name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

community *string*

Description SNMPv2 community

Context system snmp access-group name *string* community-entry name *string* community *string*

Tree community

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Description for the SNMPv2 community

Context system snmp access-group name *string* community-entry name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-list *(ipv4-prefix | ipv6-prefix)*

Description Prefixes where this community can be used, both IPv4 and IPv6 addresses

A /32 or /128 mask can be used to limit it to a single ip-address.

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Context	system snmp access-group name *string* community-entry name *string* prefix-list *(ipv4-prefix | ipv6-prefix)*
Tree	prefix-list
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

description *string*

Description	Description for this access-group
Context	system snmp access-group name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-entry name *string*

Description	List of configured SNMPv3 users
Context	system snmp access-group name *string* security-entry name *string*
Tree	security-entry
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Unique name of the SNMPv3 security

Context system snmp access-group name *string* security-entry name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description Enter the authentication context

Authentication parameters for this user

Context system snmp access-group name *string* security-entry name *string* authentication

Tree authentication

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password *string*

Description User authentication password supplied either as cleartext or as a hashed value

If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALIU=$r750fMa3ZEA/Di8d IfU2fQ==='.

Context system snmp access-group name *string* security-entry name *string* authentication password *string*

Tree password

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String Length	8 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description	Authentication protocol used by this user
Context	system snmp access-group name *string* security-entry name *string* authentication protocol *keyword*
Tree	protocol
Default	hmac-md5-96
Options	• hmac-md5-96 MD5 • hmac-sha1-96 SHA • hmac-sha2-224 SHA-224 • hmac-sha2-256 SHA-256 • hmac-sha2-384 SHA-384 • hmac-sha2-512 SHA-512
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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description *string*

Description Description for this user

Context system snmp access-group name *string* security-entry name *string* description *string*

Tree description

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

privacy

Description Enter the privacy context

Privacy parameters for this user

Context system snmp access-group name *string* security-entry name *string* privacy

Tree privacy

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password *string*

Description User privacy password, supplied either as cleartext or as a hashed value

If not provided, authentication/password will be used. If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALIU=$r750fMa3ZEA/Di8dIfU2fQ=='.

Context system snmp access-group name *string* security-entry name *string* privacy password *string*

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Tree password

String Length 8 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description Privacy protocol used by this user

Context system snmp access-group name *string* security-entry name *string* privacy protocol *keyword*

Tree protocol

Default cbc-des

Options

- cbc-des

  DES
- cfb128-aes-128

  AES
- cfb128-aes-192

  AES-192
- cfb128-aes-256

  AES-256

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user *string*

Description User name used in SNMPv3 authentication and privacy

Context system snmp access-group name *string* security-entry name *string* user *string*

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Tree	user
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-level *keyword*

Description	Minimum security level required for this access-group
Context	system snmp access-group name *string* security-level *keyword*
Tree	security-level
Options	• no-auth-no-priv • auth-no-priv • auth-priv
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *reference*

Description	List of network-instances to run an SNMP server in
Context	system snmp network-instance name *reference*
Tree	network-instance
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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Max. Elements 5

name *reference*

Description Reference to a configured network-instance

Context system snmp network-instance name *reference*

Reference network-instance name *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enables the SNMP server in this network-instance

Context system snmp network-instance name *reference* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

engine-id *string*

Description Local SNMP engine's administratively assigned unique identifier.

If this leaf is not set, the device automatically calculates an engine ID, as described in RFC 3411.

Context system snmp network-instance name *reference* engine-id *string*

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Tree	engine-id
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

error-msg *string*

Description	Indicates a possible error message if the snmp-server was stopped at runtime
Context	system snmp network-instance name *reference* error-msg *string*
Tree	error-msg
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

listen-address *(ipv4-address | ipv6-address)*

Description	List of IP addresses for the SNMP server to listen on within the network-instance
Context	system snmp network-instance name *reference* listen-address *(ipv4-address | ipv6-address)*
Tree	listen-address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

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oper-state *keyword*

Description Details the operational state of the SNMP server

Context system snmp network-instance name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for snmp statistics, as defined by RFC 1213, RFC 3418, RFC 3414 and RFC 3412

Context system snmp network-instance name *reference* statistics

Tree statistics

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-asn-parse-errs *number*

Description The total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages.

Context system snmp network-instance name *reference* statistics snmp-in-asn-parse-errs *number*

Tree snmp-in-asn-parse-errs

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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snmp-in-bad-community-names *number*

Description The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which used an SNMP community name not known to said entity.

Context system snmp network-instance name *reference* statistics snmp-in-bad-community-names *number*

Tree snmp-in-bad-community-names

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-bad-community-uses *number*

Description The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which represented an SNMP operation that was not allowed for the SNMP community named in the message.

Context system snmp network-instance name *reference* statistics snmp-in-bad-community-uses *number*

Tree snmp-in-bad-community-uses

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-bad-versions *number*

Description The total number of SNMP messages which were delivered to the SNMP entity and were for an unsupported SNMP version.

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Context	system snmp network-instance name *reference* statistics snmp-in-bad-versions *number*
Tree	snmp-in-bad-versions
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-gen-errs *number*

Description	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is 'genErr'.
Context	system snmp network-instance name *reference* statistics snmp-in-gen-errs *number*
Tree	snmp-in-gen-errs
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-get-nexts *number*

Description	The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity.
Context	system snmp network-instance name *reference* statistics snmp-in-get-nexts *number*
Tree	snmp-in-get-nexts
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-get-requests *number*

Description The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity.

Context system snmp network-instance name *reference* statistics snmp-in-get-requests *number*

Tree snmp-in-get-requests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-in-pkts *number*

Description The total number of messages delivered to the SNMP entity from the transport service.

Context system snmp network-instance name *reference* statistics snmp-in-pkts *number*

Tree snmp-in-pkts

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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snmp-in-total-req-vars *number*

Description The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs.

Context system snmp network-instance name *reference* statistics snmp-in-total-req-vars *number*

Tree snmp-in-total-req-vars

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-invalid-msgs *number*

Description The total number of packets received by the SNMP engine which were dropped because there were invalid or inconsistent components in the SNMP message.

Context system snmp network-instance name *reference* statistics snmp-invalid-msgs *number*

Tree snmp-invalid-msgs

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-out-gen-errs *number*

Description The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is 'genErr'.

Context system snmp network-instance name *reference* statistics snmp-out-gen-errs *number*

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Tree	snmp-out-gen-errs
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-out-get-responses *number*

Description	The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity.
Context	system snmp network-instance name *reference* statistics snmp-out-get-responses *number*
Tree	snmp-out-get-responses
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-out-pkts *number*

Description	The total number of SNMP Messages which were passed from the SNMP protocol entity to the transport service.
Context	system snmp network-instance name *reference* statistics snmp-out-pkts *number*
Tree	snmp-out-pkts
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6,

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7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-out-traps *number*

Description The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity.

Context system snmp network-instance name *reference* statistics snmp-out-traps *number*

Tree snmp-out-traps

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-silent-drops *number*

Description The total number of Confirmed Class PDUs (such as GetRequest-PDUs, Get NextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and Inform Request-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the request.

Context system snmp network-instance name *reference* statistics snmp-silent-drops *number*

Tree snmp-silent-drops

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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snmp-unknown-pdu-handlers *number*

Description The total number of packets received by the SNMP engine which were dropped because the PDU contained in the packet could not be passed to an application responsible for handling the pduType, e.g. no SNMP application had registered for the proper combination of the contextEngineID and the pduType.

Context system snmp network-instance name *reference* statistics snmp-unknown-pdu-handlers *number*

Tree snmp-unknown-pdu-handlers

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

snmp-unknown-security-models *number*

Description The total number of packets received by the SNMP engine which were dropped because they referenced a securityModel that was not known to or supported by the SNMP engine.

Context system snmp network-instance name *reference* statistics snmp-unknown-security-models *number*

Tree snmp-unknown-security-models

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

usm-stats-decryption-errors *number*

Description The total number of packets received by the SNMP engine which were dropped because they could not be decrypted.

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Context	system snmp network-instance name *reference* statistics usm-stats-decryption-errors *number*
Tree	usm-stats-decryption-errors
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

usm-stats-not-in-time-windows *number*

Description	The total number of packets received by the SNMP engine which were dropped because they appeared outside of the authoritative SNMP engine's window.
Context	system snmp network-instance name *reference* statistics usm-stats-not-in-time-windows *number*
Tree	usm-stats-not-in-time-windows
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

usm-stats-unknown-engine-ids *number*

Description	The total number of packets received by the SNMP engine which were dropped because they referenced an snmpEngineID that was not known to the SNMP engine.
Context	system snmp network-instance name *reference* statistics usm-stats-unknown-engine-ids *number*
Tree	usm-stats-unknown-engine-ids
Default	0
Configurable	False

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

usm-stats-unknown-user-names *number*

Description	The total number of packets received by the SNMP engine which were dropped because they referenced a user that was not known to the SNMP engine.
Context	system snmp network-instance name *reference* statistics usm-stats-unknown-user-names *number*
Tree	usm-stats-unknown-user-names
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

usm-stats-unsupported-sec-levels *number*

Description	The total number of packets received by the SNMP engine which were dropped because they requested a securityLevel that was unknown to the SNMP engine or otherwise unavailable.
Context	system snmp network-instance name *reference* statistics usm-stats-unsupported-sec-levels *number*
Tree	usm-stats-unsupported-sec-levels
Default	0
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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usm-stats-wrong-digests *number*

Description The total number of packets received by the SNMP engine which were dropped because they didn't contain the expected digest value.

Context system snmp network-instance name *reference* statistics usm-stats-wrong-digests *number*

Tree usm-stats-wrong-digests

Default 0

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transport *keyword*

Description Transport to be used for SNMP requests

Context system snmp network-instance name *reference* transport *keyword*

Tree transport

Default udp

Options

- udp
- tcp
- both

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send

Description Execute the send action

Send simulated SNMP trap

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Context	system snmp send
Tree	send
Configurable	True
Note	This is an action command
Platforms	Supported on all platforms except TOOLS

force

Description	Force trap to be send even if value doesn't trigger the python-script to generate a trap
Context	system snmp send force
Tree	force
Configurable	True
Note	This is an action input
Platforms	Supported on all platforms except TOOLS

network-instance *string*

Description	The name of the network instance that will be used to send an SNMP trap. If none is provided, all possible network-instances will receive the trap
Context	system snmp send network-instance *string*
Tree	network-instance
String Length	1 to 255
Configurable	True
Note	This is an action input
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

srl-unstructured-output

Description	Unstructured output from a YANG modelled action.
Context	system snmp send srl-unstructured-output
Tree	srl-unstructured-output

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Configurable	False
Note	This is an action output
Platforms	Supported on all platforms except TOOLS

line *string*

Description	Line of unstructured output.
Context	system snmp send srl-unstructured-output line *string*
Tree	line
Configurable	False
Note	This is an action output
Platforms	Supported on all platforms except TOOLS

trap *string*

Description	Name of the SNMP trap (see /etc/opt/srlinux/snmp/installedTraps)
Context	system snmp send trap *string*
Tree	trap
Configurable	True
Note	This is an action input
Platforms	Supported on all platforms except TOOLS

trigger *string*

Description	Trigger that will generate the trap with a simulated on-change notification. Uses xpath format
Context	system snmp send trigger *string*
Tree	trigger
Configurable	True
Note	This is an action input
Platforms	Supported on all platforms except TOOLS

value *string*

Description	Value that will be used in the simulated on-change notification
Context	system snmp send value *string*

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Tree	value
Configurable	True
Note	This is an action input
Platforms	Supported on all platforms except TOOLS

trap-group name *string*

Description	List of configured SNMP trap-groups
Context	system snmp trap-group name *string*
Tree	trap-group
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the SNMP trap-group
Context	system snmp trap-group name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enables the SNMP traps in the network-instance
Context	system snmp trap-group name *string* admin-state *keyword*
Tree	admin-state
Default	enable

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Options	• enable • disable
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description for this trap-group
Context	system snmp trap-group name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination name *string*

Description	List of configured SNMPv3 trap-destinations
Context	system snmp trap-group name *string* destination name *string*
Tree	destination
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16

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name *string*

Description Name of the SNMPv3 destination

Context system snmp trap-group name *string* destination name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description Destination IP addresses for the SNMP trap

Context system snmp trap-group name *string* destination name *string* address *(ipv4-address | ipv6-address)*

Tree address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enables SNMP traps to this destination

Context system snmp trap-group name *string* destination name *string* admin-state *keyword*

Tree admin-state

Default enable

Options

- enable
- disable

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

community-entry name *string*

Description	SNMPv2 community configured on this destination
Context	system snmp trap-group name *string* destination name *string* community-entry name *string*
Tree	community-entry
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	1

name *string*

Description	Unique name for the SNMP community on this destination
Context	system snmp trap-group name *string* destination name *string* community-entry name *string*
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

community *string*

Description	SNMPv2 community

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Context	system snmp trap-group name *string* destination name *string* community-entry name *string* community *string*
Tree	community
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description for the SNMPv2 community
Context	system snmp trap-group name *string* destination name *string* community-entry name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description	Description for this destination
Context	system snmp trap-group name *string* destination name *string* description *string*
Tree	description
String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port *number*

Description Destination port for the SNMP trap

Context system snmp trap-group name *string* destination name *string* port *number*

Tree port

Range 0 to 65535

Default 162

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-entry name *string*

Description SNMPv3 security configured on this destination

Context system snmp trap-group name *string* destination name *string* security-entry name *string*

Tree security-entry

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 1

name *string*

Description Unique name of the SNMPv3 security

Context system snmp trap-group name *string* destination name *string* security-entry name *string*

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String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authentication

Description	Enter the authentication context Authentication parameters for this user
Context	system snmp trap-group name *string* destination name *string* security-entry name *string* authentication
Tree	authentication
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

password *string*

Description	User authentication password supplied either as cleartext or as a hashed value If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALIU=$r750fMa3ZEA/Di8d IfU2fQ==='.
Context	system snmp trap-group name *string* destination name *string* security-entry name *string* authentication password *string*
Tree	password
String Length	8 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description Authentication protocol used by this user

Context system snmp trap-group name *string* destination name *string* security-entry name *string* authentication protocol *keyword*

Tree protocol

Default hmac-md5-96

Options

- hmac-md5-96
  MD5
- hmac-sha1-96
  SHA
- hmac-sha2-224
  SHA-224
- hmac-sha2-256
  SHA-256
- hmac-sha2-384
  SHA-384
- hmac-sha2-512
  SHA-512

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

description *string*

Description Description for this user

Context system snmp trap-group name *string* destination name *string* security-entry name *string* description *string*

Tree description

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String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

engine-id *string*

Description	Unique identifier for the SNMP engine of a trap sender If this leaf is not set, the local SNMP engine will be used. This also needs to be configured on the destination side.
Context	system snmp trap-group name *string* destination name *string* security-entry name *string* engine-id *string*
Tree	engine-id
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

privacy

Description	Enter the privacy context Privacy parameters for this user
Context	system snmp trap-group name *string* destination name *string* security-entry name *string* privacy
Tree	privacy
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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password *string*

Description User privacy password, supplied either as cleartext or as a hashed value

If not provided, authentication/password will be used. If provided as cleartext, the system will hash the value on input, storing only the hashed value. If provided as a hashed value, the value should include any '$' characters, for example '$ar2$aOvsuj0ALIU=$r750fMa3ZEA/Di8dIfU2fQ==='.

Context system snmp trap-group name *string* destination name *string* security-entry name *string* privacy password *string*

Tree password

String Length 8 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol *keyword*

Description Privacy protocol used by this user

Context system snmp trap-group name *string* destination name *string* security-entry name *string* privacy protocol *keyword*

Tree protocol

Default cbc-des

Options

- cbc-des

  DES
- cfb128-aes-128

  AES
- cfb128-aes-192

  AES-192
- cfb128-aes-256

  AES-256

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user *string*

Description User name used in SNMPv3 authentication and privacy

Context system snmp trap-group name *string* destination name *string* security-entry name *string* user *string*

Tree user

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-level *keyword*

Description Security level required for this destination

Context system snmp trap-group name *string* destination name *string* security-level *keyword*

Tree security-level

Options

- no-auth-no-priv
- auth-no-priv
- auth-priv

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network-instance *reference*

Description	Reference to a network-instance configured for SNMP
Context	system snmp trap-group name *string* network-instance *reference*
Tree	network-instance
Reference	system snmp network-instance name *reference*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description	IP address for the SNMP server to use as source-address within the network-instance
Context	system snmp trap-group name *string* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssh-server name *string*

Description	Enter the ssh-server list instance
Context	system ssh-server name *string*
Tree	ssh-server
Configurable	True
Platforms	Supported on all platforms

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name *string*

Description	User-provided name of this server instance
Context	system ssh-server name *string*
String Length	1 to 220
Configurable	True
Platforms	Supported on all platforms

admin-state *keyword*

Description	Enable or disable the SSH server instance
Context	system ssh-server name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	Supported on all platforms

allowed-authentication-types *keyword*

Description	List of allowed authentication types When not configured, publickey and password authentication are allowed, unless the SSH server instance uses gNSI Credentialz and the allowed authentication types were set through it. This sets the AuthenticationMethods option within each SSH servers configuration file. Also sets PasswordAuthentication PubkeyAuthentication KbdInteractiveAuthentication options within each SSH servers configuration file.
Context	system ssh-server name *string* allowed-authentication-types *keyword*
Tree	allowed-authentication-types
Options	• password • publickey • keyboard-interactive
Configurable	True
Platforms	Supported on all platforms

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authorized-principal-check-tool *keyword*

Description Configure the tool used to check the authorized principals

Setting the value to hiba-chk sets the AuthorizedPrincipalsCommand to hiba-chk tool. If unset, the aaamgr will do the principal checking.

Context system ssh-server name *string* authorized-principal-check-tool *keyword*

Tree authorized-principal-check-tool

Options
- hiba-chk

Configurable True

Platforms Supported on all platforms

cipher-list *identityref*

Description Ordered list of allowed SSH ciphers.

Context system ssh-server name *string* cipher-list *identityref*

Tree cipher-list

Options
- triple-des-cbc
  3des-cbc
- aes128-cbc
  aes128-cbc
- aes192-cbc
  aes192-cbc
- aes256-cbc
  aes256-cbc
- aes128-ctr
  aes128-ctr
- aes192-ctr
  aes192-ctr
- aes256-ctr
  aes256-ctr
- aes128-gcm_openssh.com
  aes128-gcm@openssh.com
- aes256-gcm_openssh.com
  aes256-gcm@openssh.com
- chacha20-poly1305_openssh.com

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chacha20-poly1305@openssh.com

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

counters

Description Enter the counters context

A collection of counters that were collected by the SSH server during the SSH authentication process.

Context system ssh-server name *string* counters

Tree counters

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

access-accepts *number*

Description The total number of times the SSH allowed access to the server.

Context system ssh-server name *string* counters access-accepts *number*

Tree access-accepts

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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access-rejects *number*

Description	The total number of times the SSH server denied access to the server.
Context	system ssh-server name *string* counters access-rejects *number*
Tree	access-rejects
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-accept *string*

Description	A timestamp of the last time the SSH allowed access to the server.
Context	system ssh-server name *string* counters last-access-accept *string*
Tree	last-access-accept
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-access-reject *string*

Description	A timestamp of the last time the SSH server denied access to the server.
Context	system ssh-server name *string* counters last-access-reject *string*
Tree	last-access-reject
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

credentialz

Description

Enter the credentialz context

Information relating to the active host keys and certificates as provided via Credentialz

State is provided by the gNSI Credentialz service, and can be changed using the gNSI.Credentialz.RotateHostParameters RPC

Context

system ssh-server name *string* credentialz

Tree

credentialz

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-certificate

Description

Enter the host-certificate context

State relating to the Host Certificates provided via Credentialz

Context

system ssh-server name *string* credentialz host-certificate

Tree

host-certificate

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system ssh-server name *string* credentialz host-certificate created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system ssh-server name *string* credentialz host-certificate version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-key

Description Enter the host-key context

State relating to the Host Keys provided via Credentialz

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Context	system ssh-server name *string* credentialz host-key
Tree	host-key
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description	The created on timestamp as provided by the gNSI client at the time of uploading the artifact The maps to the created_on field within a Entity message in the Credentialz protobuf.
Context	system ssh-server name *string* credentialz host-key created-on *string*
Tree	created-on
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description	The version string as provided by the gNSI client at the time of uploading the artifact The maps to the version field within a Entity message in the Credentialz protobuf.
Context	system ssh-server name *string* credentialz host-key version *string*
Tree	version
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trusted-user-ca-keys

Description Enter the trusted-user-ca-keys context

State relating to the Certificate Authorities provided via Credentialz.

Context system ssh-server name *string* credentialz trusted-user-ca-keys

Tree trusted-user-ca-keys

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the artifact

The maps to the created_on field within a Entity message in the Credentialz protobuf.

Context system ssh-server name *string* credentialz trusted-user-ca-keys created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the artifact

The maps to the version field within a Entity message in the Credentialz protobuf.

Context system ssh-server name *string* credentialz trusted-user-ca-keys version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable-shell *boolean*

Description Disable the ability to spawn a shell for incoming connections

Context system ssh-server name *string* disable-shell *boolean*

Tree disable-shell

Default false

Configurable True

Platforms Supported on all platforms

host-key

Description Enter the host-key context

Context system ssh-server name *string* host-key

Tree host-key

Configurable True

Platforms Supported on all platforms

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preserve *boolean*

Description Indicates whether the autogenerated SSH server host keys should be preserved on reboots

Setting this to true will result in host keys in /etc/sshd not being cleared on a reboot. Alternatively setting this to false will result in host keys being removed and regenerated on each reboot of the system.

This is useful only when the host keys are not statically configured and not dynamically configured using gNSI Credentialz service (and therefore are suitable to be potentially regenerated on every reboot).

Takes effect only if the value is set to false for every configured ssh server instance.

Context system ssh-server name *string* host-key preserve *boolean*

Tree preserve

Default true

Configurable True

Platforms Supported on all platforms

type type *keyword*

Description List of the SSH servers host private-keys and certificates

Context system ssh-server name *string* host-key type type *keyword*

Tree type

Configurable True

Platforms Supported on all platforms

type *keyword*

Description Type of generated host key

Context system ssh-server name *string* host-key type type *keyword*

Options

- ssh-rsa-3076
- ecdsa-sha2-nistp256
- ecdsa-sha2-nistp521
- ssh-ed25519
- ssh-rsa-2048
- ssh-rsa-4096

Configurable True

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Platforms	Supported on all platforms

certificate *string*

Description	Each item value should be the host key certificate as read from the *-cert.pub file generated by the CA including the certificate type, e.g. 'ssh-rsa-cert-v01@openssh.com AAAA<...> comment'. This certificate is returned to clients during SSH init for the client to verify the host it is communicating with. This sets the HostCertificate option within each SSH servers configuration file. The certificate should be generated by first extracting the systems current public key and having this signed by a CA.
Context	system ssh-server name *string* host-key type type *keyword* certificate *string*
Tree	certificate
Configurable	True
Platforms	Supported on all platforms

private-key *string*

Description	The value should be the host private key as read from the private key file. This sets the HostKey option within each SSH servers configuration file.
Context	system ssh-server name *string* host-key type type *keyword* private-key *string*
Tree	private-key
Configurable	True
Platforms	Supported on all platforms

public-key *string*

Description	The value is be the host public key as read from the public key file.
Context	system ssh-server name *string* host-key type type *keyword* public-key *string*
Tree	public-key
Configurable	False
Platforms	Supported on all platforms

kex-list *identityref*

Description	Ordered list of allowed SSH kex algorithms.

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Context system ssh-server name *string* kex-list *identityref*

Tree kex-list

Options

- diffie-hellman-group1-sha1
  diffie-hellman-group1-sha1
- diffie-hellman-group14-sha1
  diffie-hellman-group14-sha1
- diffie-hellman-group14-sha256
  diffie-hellman-group14-sha256
- diffie-hellman-group16-sha512
  diffie-hellman-group16-sha512
- diffie-hellman-group18-sha512
  diffie-hellman-group18-sha512
- diffie-hellman-group-exchange-sha1
  diffie-hellman-group-exchange-sha1
- diffie-hellman-group-exchange-sha256
  diffie-hellman-group-exchange-sha256
- ecdh-sha2-nistp256
  ecdh-sha2-nistp256
- ecdh-sha2-nistp384
  ecdh-sha2-nistp384
- ecdh-sha2-nistp521
  ecdh-sha2-nistp521
- curve25519-sha256
  curve25519-sha256
- curve25519-sha256_libssh.org
  curve25519-sha256@libssh.org
- sntrup761x25519-sha512
  sntrup761x25519-sha512
- sntrup761x25519-sha512_openssh.com
  sntrup761x25519-sha512@openssh.com
- mlkem768x25519-sha256
  mlkem768x25519-sha256

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-list *identityref*

Description Ordered list of allowed SSH host key algorithms.

Context system ssh-server name *string* key-list *identityref*

Tree key-list

Options

- ssh-ed25519
  ssh-ed25519
- ssh-ed25519-cert-v01_openssh.com
  ssh-ed25519-cert-v01@openssh.com
- ecdsa-sha2-nistp256
  ecdsa-sha2-nistp256
- ecdsa-sha2-nistp256-cert-v01_openssh.com
  ecdsa-sha2-nistp256-cert-v01@openssh.com
- ecdsa-sha2-nistp521
  ecdsa-sha2-nistp521
- ecdsa-sha2-nistp521-cert-v01_openssh.com
  ecdsa-sha2-nistp521-cert-v01@openssh.com
- ssh-rsa
  ssh-rsa
- ssh-rsa-cert-v01_openssh.com
  ssh-rsa-cert-v01@openssh.com

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-list *identityref*

Description Ordered list of allowed SSH mac algorithms.

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Context system ssh-server name *string* mac-list *identityref*

Tree mac-list

Options

- hmac-sha1
  hmac-sha1
- hmac-sha1-96
  hmac-sha1-96
- hmac-sha2-256
  hmac-sha2-256
- hmac-sha2-512
  hmac-sha2-512
- hmac-md5
  hmac-md5
- hmac-md5-96
  hmac-md5-96
- umac-64_openssh.com
  umac-64@openssh.com
- umac-128_openssh.com
  umac-128@openssh.com
- hmac-sha1-etm_openssh.com
  hmac-sha1-etm@openssh.com
- hmac-sha1-96-etm_openssh.com
  hmac-sha1-96-etm@openssh.com
- hmac-sha2-256-etm_openssh.com
  hmac-sha2-256-etm@openssh.com
- hmac-sha2-512-etm_openssh.com
  hmac-sha2-512-etm@openssh.com
- hmac-md5-etm_openssh.com
  hmac-md5-etm@openssh.com
- hmac-md5-96-etm_openssh.com
  hmac-md5-96-etm@openssh.com
- umac-64-etm_openssh.com
  umac-64-etm@openssh.com
- umac-128-etm_openssh.com
  umac-128-etm@openssh.com

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description Network instance to run the SSH server in

Context system ssh-server name *string* network-instance *reference*

Tree network-instance

Reference network-instance name *string*

Configurable True

Platforms Supported on all platforms except IMGMT

oper-state *keyword*

Description Operational state of the SSH server instance

Context system ssh-server name *string* oper-state *keyword*

Tree oper-state

Options

- up
  Component or process is operational
- down
  Component or process is not operational
- empty
  Component slot is empty
- downloading
  Component is downloading image into memory
- booting
  Component is booting downloaded image
- starting
  Component image operational, application processes starting
- failed
  Component or process has failed
- synchronizing

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Component is currently being synchronized

- upgrading

  Component is currently being upgraded

- low-power

  Component is offline due to insufficient system power

- degraded

  Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms Supported on all platforms

port *number*

Description Port the SSH server instance will listen on for incoming connections

Context system ssh-server name *string* port *number*

Tree port

Range 0 to 65535

Default 22

Configurable True

Platforms Supported on all platforms

port-forwarding *boolean*

Description Allow SSH port-forwarding to be enabled for this ssh server instance

Setting this to true will allow SSH port-forwarding for all users connecting to this instance.

Context system ssh-server name *string* port-forwarding *boolean*

Tree port-forwarding

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Default	false
Configurable	True
Platforms	Supported on all platforms

protocol-version *number*

Description	Protocol version in use by the SSH server
Context	system ssh-server name *string* protocol-version *number*
Tree	protocol-version
Configurable	False
Platforms	Supported on all platforms

rate-limit *number*

Description	Set a limit on the number of unauthenticated sessions to the SSH server after this number is met, the server will start dropping connection attempts
Context	system ssh-server name *string* rate-limit *number*
Tree	rate-limit
Default	20
Configurable	True
Platforms	Supported on all platforms

rekey-limit-data *number*

Description	Maximum amount of data that may be transmitted/received before the session key is renegotiated The configured value must be at least 1. Specified value is in Megabytes. When not specified, the default value is between 1GB and 4GB depending on the cipher.
Context	system ssh-server name *string* rekey-limit-data *number*
Tree	rekey-limit-data
Range	1 to 4294967295
Units	megabytes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rekey-limit-time *number*

Description Maximum amount of time that may pass before the session key is renegotiated

The configured value must be at least 1. Specified value is in seconds. When not specified, no time-based rekey is performed.

Context system ssh-server name *string* rekey-limit-time *number*

Tree rekey-limit-time

Range 1 to 4294967295

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revoked-keys *string*

Description List of revoked public keys

Each items value should be the public key of a revoked keypair, e.g. 'ssh-rsa AAAA<...>= comment'. Any keys provided here cannot be used for public key authentication.

This sets the RevokedKeys option within each SSH servers configuration file.

Context system ssh-server name *string* revoked-keys *string*

Tree revoked-keys

Configurable True

Platforms Supported on all platforms

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source-address *(ipv4-address | ipv6-address)*

Description	List of IP addresses for the SSH server to listen on within the network-instance
Context	system ssh-server name *string* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

timeout *number*

Description	Set the idle timeout in seconds on SSH connections
Context	system ssh-server name *string* timeout *number*
Tree	timeout
Default	0
Units	seconds
Configurable	True
Platforms	Supported on all platforms

trust-anchors *string*

Description	List of public keys used to verify user certificates during authentication Each items value should be the public key of a CA, e.g. 'ssh-rsa AAAA<...>= comment'. If no trust anchors are configured, authentication using SSH certificates will not function. This sets the TrustedUserCAKeys option within each SSH servers configuration file.
Context	system ssh-server name *string* trust-anchors *string*
Tree	trust-anchors
Configurable	True
Platforms	Supported on all platforms

use-credentialz *boolean*

Description	Use the gNSI Credentialz service global SSH configuration for this SSH server instance

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Setting this to true will apply any gNSI Credentialz configuration for this SSH server instance. Static configuration will override any gNSI Credentialz configuration.

Context system ssh-server name *string* use-credentialz *boolean*

Tree use-credentialz

Configurable True

Platforms Supported on all platforms

storage-encryption

Description Enter the storage-encryption context

Top-level container for operational commands related to system storage encryption.

Context system storage-encryption

Tree storage-encryption

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

primary-secret

Description Enter the primary-secret context

Operational commands for the primary secret used for storage encryption.

Context system storage-encryption primary-secret

Tree primary-secret

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-changed *string*

Description The date and time when the primary secret was last configured

Context system storage-encryption primary-secret last-changed *string*

Tree last-changed

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

present *boolean*

Description Indicates whether the primary secret has been configured.

When false, no primary secret exists yet (for example on a freshly installed system); when true, a primary secret is already set.

Context system storage-encryption primary-secret present *boolean*

Tree present

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set-secret

Description Execute the set-secret action

Set or change the primary secret

To change an existing primary secret, provide the current value in current-secret.

Context system storage-encryption primary-secret set-secret

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Tree	set-secret
Configurable	False
Note	This is an action command
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-secret *string*

Description	The current primary secret
Context	system storage-encryption primary-secret set-secret current-secret *string*
Tree	current-secret
String Length	12 to 128
Configurable	False
Note	This is an action input
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

new-secret *string*

Description	The new primary secret
Context	system storage-encryption primary-secret set-secret new-secret *string*
Tree	new-secret
String Length	12 to 128
Configurable	False
Note	This is an action input
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync

Description Enter the sync context

Context to configure sync parameters and report sessions state

Context system sync

Tree sync

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

freq-clock

Description Enter the freq-clock context

Context system sync freq-clock

Tree freq-clock

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-reference *keyword*

Description Indicates the current selected reference

This will be an instance-number; or internal for the case of holdover or freerun.

Context system sync freq-clock active-reference *keyword*

Tree active-reference

Options

- 1
- 2
- 3
- 4
- 5

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- internal

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

freq-clock-state *keyword*

Description Shows the frequency clock mode state

Context system sync freq-clock freq-clock-state *keyword*

Tree freq-clock-state

Options

- not-present

  Frequency clock is locked to a line timing reference signal
- master-free-run

  Frequency clock is master free run mode
- master-holdover

  Frequency clock is master holdover mode
- master-locked

  Frequency clock is master locked mode
- slave

  Frequency clock is slave mode
- acquiring

  Frequency clock is acquiring mode

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

freq-offset *decimal-number*

Description The frequency offset between the central frequency clock and the selected reference in ppb

Context system sync freq-clock freq-offset *decimal-number*

Tree freq-offset

Units parts-per-billion

Configurable False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-type *keyword*

Description Configures SyncE for SSM code-type as SONET or SDH mode sdh specifies the values corresponding to ITU-T G.781 Option 1 compliant networks. sonet specifies the values corresponding to ITU-T G.781 Option 2 compliant networks.

Context system sync freq-clock network-type *keyword*

Tree network-type

Default sonet

Options

- sdh

  sdh specifies the values corresponding to G.781 Option 1 compliant networks
- sonet

  sonet specifies the values corresponding to G.781 Option 2 compliant networks

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ql-input-threshold *keyword*

Description This command configures the minimum acceptable QL value Frequency references with lower QL will not be considered for selection by the system timing module. Options: unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2

Context system sync freq-clock ql-input-threshold *keyword*

Tree ql-input-threshold

Default unused

Options

- unused

  No override or minimum QL level selected
- prs

  QL of PRS
- stu

  QL of STU

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- st2
  QL of Stratum 2
- tnc
  QL of TNC
- st3e
  QL of Stratum 3E
- st3
  QL of Stratum 3
- prc
  QL of PRC
- ssua
  QL of SSU-A
- ssub
  QL of SSU-B
- sec
  QL of SEC
- eec1
  QL of EEC-1
- eec2
  QL of EEC-2

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ql-selection *boolean*

Description Configures if frequency reference selection takes the QL (Quality Level) into account When enabled, the selection of system timing reference and BITS output timing reference takes into account quality level. Quality level is conveyed via the SSM or forced using the ql-override command..

Context system sync freq-clock ql-selection *boolean*

Tree ql-selection

Default false

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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revert *boolean*

Description This command configures if the frequency clock is in revertive mode In revertive mode, when a failed reference becomes operational, the system will automatically switch to the recovered reference if it is of higher priority and/or QL. When the mode is non-revertive, a failed clock source is not automatically selected.

Context system sync freq-clock revert *boolean*

Tree revert

Default false

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

system-ql-value *keyword*

Description System QL value based on the reference selected

Context system sync freq-clock system-ql-value *keyword*

Tree system-ql-value

Options

- unknown

  Unknown
- prs

  QL of PRS
- stu

  QL of STU
- st2

  QL of Stratum 2
- tnc

  QL of TNC
- st3e

  QL of Stratum 3E
- st3

  QL of Stratum 3
- smc

  QL of SMC
- st4

  QL of Stratum 4

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- dus
  QL of DNU
- prc
  QL of PRC
- ssua
  QL of SSU-A
- ssub
  QL of SSU-B
- sec
  QL of SEC
- dnu
  QL of DNU
- inv
  QL of INV
- pno
  QL of PNO
- eec1
  QL of EEC-1
- eec2
  QL of EEC-2
- failed
  Failed

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

wait-to-restore *number*

Description This command configures the time for the Wait to Restore timer A previously failed input reference must be valid for the time specified before it is used for the clock input reference.

Context system sync freq-clock wait-to-restore *number*

Tree wait-to-restore

Range 0 to 12

Default 5

Units minutes

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Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

freq-references

Description	Enter the freq-references context
Context	system sync freq-references
Tree	freq-references
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance instance-number *number*

Description	List of line references configured for frequency
Context	system sync freq-references instance instance-number *number*
Tree	instance
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-number *number*

Description	The instance number of the each line reference
Context	system sync freq-references instance instance-number *number*
Range	1 to 5
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Configure the administrative state of this frequency reference instance

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Context	system sync freq-references instance instance-number *number* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-qualified-reason *keyword*

Description	If the reference is not qualified, this identifies the reason
Context	system sync freq-references instance instance-number *number* not-qualified-reason *keyword*
Tree	not-qualified-reason
Options	• not-applicable Reason is not applicable • los Reference is not-qualified because of Loss of Signal (LOS) • ssm-quality Reference is not-qualified because of received SSM/QL level • out-of-range Reference is not-qualified because the reference is out of range in frequency • wtr Reference is not-qualified because the wait-to-restore timer has not expired • admin-disabled Reference is not-qualified because the reference has not been admin enabled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Indicates the operational state of this line reference

Context system sync freq-references instance instance-number *number* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

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This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description Sets the priority of this line timing reference for the system timing selection process 1 = highest priority 5 = lowest priority Duplicate numbers are not allowed

Context system sync freq-references instance instance-number *number* priority *number*

Tree priority

Range 1 to 5

Default 3

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ql-override *keyword*

Description Override the incoming QL/SSM value for this line reference Quality level override of a timing reference Options are unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2

Context system sync freq-references instance instance-number *number* ql-override *keyword*

Tree ql-override

Default unused

Options

- unused

  No override or minimum QL level selected
- prs

  QL of PRS
- stu

  QL of STU
- st2

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QL of Stratum 2

- tnc

  QL of TNC

- st3e

  QL of Stratum 3E

- st3

  QL of Stratum 3

- prc

  QL of PRC

- ssua

  QL of SSU-A

- ssub

  QL of SSU-B

- sec

  QL of SEC

- eec1

  QL of EEC-1

- eec2

  QL of EEC-2

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ql-value *keyword*

Description The incoming QL/SSM value from this line reference

Context system sync freq-references instance instance-number *number* ql-value *keyword*

Tree ql-value

Options

- unknown

  Unknown

- prs

  QL of PRS

- stu

  QL of STU

- st2

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QL of Stratum 2

- tnc
  QL of TNC
- st3e
  QL of Stratum 3E
- st3
  QL of Stratum 3
- smc
  QL of SMC
- st4
  QL of Stratum 4
- dus
  QL of DNU
- prc
  QL of PRC
- ssua
  QL of SSU-A
- ssub
  QL of SSU-B
- sec
  QL of SEC
- dnu
  QL of DNU
- inv
  QL of INV
- pno
  QL of PNO
- eec1
  QL of EEC-1
- eec2
  QL of EEC-2
- failed
  Failed

Configurable False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reference-status *keyword*

Description The current status this line reference

Context system sync freq-references instance instance-number *number* reference-status *keyword*

Tree reference-status

Options

- qualified

  Reference is in normal qualified state

- not-qualified

  Reference is in not-qualified state

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source

Description Enter the source context

Source for this input frequency reference

This shall be either a leafref to an interface or an application. The leafref must point to an existing physical ethernet interface.

Context system sync freq-references instance instance-number *number* source

Tree source

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Enter the interface context

Context system sync freq-references instance instance-number *number* source interface *reference*

Tree interface

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Reference	interface name *string*
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp

Description	Enable the ptp context
Context	system sync freq-references instance instance-number *number* source ptp
Tree	ptp
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

one-pps

Description	Enter the one-pps context
Context	system sync one-pps
Tree	one-pps
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3

admin-state *keyword*

Description	Configure the administrative state of the 1PPS (50 ohm) output port When enabled, output is enabled. Otherwise, the output is disabled.
Context	system sync one-pps admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3

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ptp

Description	Enter the ptp context
Context	system sync ptp
Tree	ptp
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance instance-index *number*

Description	List of one or more PTP instances in the product (PTP Node) Each PTP instance represents a distinct instance of PTP implementation (i.e. distinct Ordinary Clock, Boundary Clock, or Transparent Clock), maintaining a distinct time.
Context	system sync ptp instance instance-index *number*
Tree	instance
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-index *number*

Description	The instance index of the current PTP instance This instance index is used for management purposes only. This instance index does not represent the PTP domain number and is not used in PTP messages.
Context	system sync ptp instance instance-index *number*
Range	1 to 2
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-ds

Description	Enter the current-ds context

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Provides current data from operation of the protocol

Context	system sync ptp instance instance-index *number* current-ds
Tree	current-ds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mean-delay *number*

Description	The mean propagation time between this PTP instance and the master clock
Context	system sync ptp instance instance-index *number* current-ds mean-delay *number*
Tree	mean-delay
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset-from-master *number*

Description	The time difference between this PTP instance and the master clock
Context	system sync ptp instance instance-index *number* current-ds offset-from-master *number*
Tree	offset-from-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

steps-removed *number*

Description	The number of PTP clock steps in the path between the this PTP instance and the GM
Context	system sync ptp instance instance-index *number* current-ds steps-removed *number*
Tree	steps-removed
Configurable	False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

default-ds

Description Enter the default-ds context

The default data set of the PTP instance

In the context of the protocol, this data set is required for an Ordinary Clock or Boundary Clock

Context system sync ptp instance instance-index *number* default-ds

Tree default-ds

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

announce-receipt-timeout *number*

Description Sets the time limit for missed Announce packets before the master clock is deemed down

This command configures the announceReceiptTimeout value for all peer associations. This defines the number of Announce message intervals that must expire with no received Announce messages before declaring an ANNOUNCE_RECEIPT_TIMEOUT event.

Context system sync ptp instance instance-index *number* default-ds announce-receipt-timeout *number*

Tree announce-receipt-timeout

Range 2 to 10

Default 3

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-identity *binary*

Description The clockIdentity of the local clock

Context system sync ptp instance instance-index *number* default-ds clock-identity *binary*

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Tree	clock-identity
String Length	8
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-quality

Description	Enter the clock-quality context The clockQuality of the local clock
Context	system sync ptp instance instance-index *number* default-ds clock-quality
Tree	clock-quality
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-accuracy *number*

Description	The clockAccuracy indicates the expected accuracy of the clock
Context	system sync ptp instance instance-index *number* default-ds clock-quality clock-accuracy *number*
Tree	clock-accuracy
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-class *number*

Description	The clockClass denotes the traceability of the time or frequency distributed by the clock
Context	system sync ptp instance instance-index *number* default-ds clock-quality clock-class *number*
Tree	clock-class
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset-scaled-log-variance *number*

Description	The offsetScaledLogVariance provides an estimate of the variations of the clock
Context	system sync ptp instance instance-index *number* default-ds clock-quality offset-scaled-log-variance *number*
Tree	offset-scaled-log-variance
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-time

Description	Enter the current-time context The current time in the current data set
Context	system sync ptp instance instance-index *number* default-ds current-time
Tree	current-time
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

date-time *string*

Description	PTP current time converted to UTC and presented as a date-time string
Context	system sync ptp instance instance-index *number* default-ds current-time date-time *string*
Tree	date-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-nano-seconds *number*

Description	Nano-seconds of time
Context	system sync ptp instance instance-index *number* default-ds current-time time-nano-seconds *number*
Tree	time-nano-seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-seconds *number*

Description	Seconds of time
Context	system sync ptp instance instance-index *number* default-ds current-time time-seconds *number*
Tree	time-seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-number *number*

Description	The IEEE Std 1588 domainNumber of the PTP instance A domain consists of one or more PTP instances communicating with each other as defined by the protocol. A domain shall define the scope of PTP message communication, state, operations, data sets, and timescale. Therefore, each domain represents a distinct time. The default domain number is defined by the profile. itug8275dot1: 24 itug8275dot2: 44
Context	system sync ptp instance instance-index *number* default-ds domain-number *number*
Tree	domain-number
Range	0 to 255
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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freq-recovery-engine

Description	Enter the freq-recovery-engine context
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine
Tree	freq-recovery-engine
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frequency-offset *decimal-number*

Description	The frequency offset of the recovered PTP clock Positive values indicate that the recovered clock is faster than nominal, negative values indicate that the recovered clock is slower than nominal.
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine frequency-offset *decimal-number*
Tree	frequency-offset
Units	parts-per-billion
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-adjustment-timestamp *string*

Description	The time when last-adjustment was last calculated
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine last-adjustment-timestamp *string*
Tree	last-adjustment-timestamp
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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recovery-state *keyword*

Description Specifies the current state of the time recovery engine in the PTP clock

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine recovery-state *keyword*

Tree recovery-state

Options

- not-applicable

  Not applicable to time recovery
- initial

  Initializing state
- acquiring

  Acquiring state
- phase-tracking

  Phase Tracking state
- holdover

  Holdover state
- locked

  Locked state

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-last-changed *string*

Description Specifies the last occurrence of a ptp state change for the time recovery engine

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine state-last-changed *string*

Tree state-last-changed

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Freq recovery engine state statistics for the PTP clock

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-high-phase-shift *number*

Description The number of events with large clock shift for delay req packets for frequency recovery

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics delay-high-phase-shift *number*

Tree delay-high-phase-shift

Default 0

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-too-much-pdv *number*

Description The number of events with high PDV for delay req packets for frequency recovery

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics delay-too-much-pdv *number*

Tree delay-too-much-pdv

Default 0

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-high-phase-shift *number*

Description	The number of events with large clock shift from sync packets for frequency recovery
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics sync-high-phase-shift *number*
Tree	sync-high-phase-shift
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-too-much-pdv *number*

Description	The number of events with high PDV for sync packets for frequency recovery
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics sync-too-much-pdv *number*
Tree	sync-too-much-pdv
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-acquiring *number*

Description	Specifies the number of seconds while in Acquiring state
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics time-in-acquiring *number*
Tree	time-in-acquiring
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-in-holdover *number*

Description	Specifies the number of seconds while in Holdover state
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics time-in-holdover *number*
Tree	time-in-holdover
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-initial *number*

Description	Specifies the number of seconds while in Initializing state
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics time-in-initial *number*
Tree	time-in-initial
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-locked *number*

Description	Specifies the number of seconds while in Locked state
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics time-in-locked *number*
Tree	time-in-locked
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-in-phase-tracking *number*

Description	Specifies the number of seconds while in Phase Tracking state
Context	system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics time-in-phase-tracking *number*
Tree	time-in-phase-tracking
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-enable *boolean*

Description	Enable PTP clock
Context	system sync ptp instance instance-index *number* default-ds instance-enable *boolean*
Tree	instance-enable
Default	false
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-type *keyword*

Description	The type of PTP instance as per IEEE1588 standard For G.8275.1: oc is for T-GM, bc is for T-BC; T-TSC not supported since T-BC can be used for this role For G.8275.2: oc is for T-GM, bc is for T-BC-A and T-BC-P; T-TSC-A and T-TSC-P are not supported since T-BC-A or T-BC-P can be used for this role
Context	system sync ptp instance instance-index *number* default-ds instance-type *keyword*
Tree	instance-type
Default	bc
Options	• bc boundary clock
Configurable	True

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-priority *number*

Description	The IEEE Std 1588 priority2 of the PTP instance The priority2 member is compared by the Best Master Clock Algorithm (BMCA) after priority1 and clockQuality. Lower values take precedence.
Context	system sync ptp instance instance-index *number* default-ds local-priority *number*
Tree	local-priority
Range	1 to 255
Default	128
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-announce-interval *number*

Description	The base-2 logarithm of the mean announceInterval This is the mean time interval between successive Announce messages. The default log announce interval is defined by the profile. itug8275dot1: -3 (8 messages per second) itug8275dot2: 1 (1 message every two seconds)
Context	system sync ptp instance instance-index *number* default-ds log-announce-interval *number*
Tree	log-announce-interval
Range	-3 to 4
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-steps-removed *number*

Description	Threshold for steps removed in Announce messages
Context	system sync ptp instance instance-index *number* default-ds max-steps-removed *number*

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Tree	max-steps-removed
Range	1 to 255
Default	255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

number-ports *number*

Description	The number of PTP ports on the instance
Context	system sync ptp instance instance-index *number* default-ds number-ports *number*
Tree	number-ports
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority1 *number*

Description	The IEEE Std 1588 priority1 of the PTP instance Since priority1 is one of the first comparisons performed by the Best Master Clock Algorithm (BMCA). Range is 0-255.
Context	system sync ptp instance instance-index *number* default-ds priority1 *number*
Tree	priority1
Range	0 to 255
Default	128
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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priority2 *number*

Description The IEEE Std 1588 priority2 of the PTP instance

The priority2 member is compared by the Best Master Clock Algorithm (BMCA) after priority1 and clockQuality. Lower values take precedence.

Context system sync ptp instance instance-index *number* default-ds priority2 *number*

Tree priority2

Range 0 to 255

Default 128

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Aggregate statistics for the PTP clock

Context system sync ptp instance instance-index *number* default-ds statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rx *number*

Description Specifies the number of announce messages received

Context system sync ptp instance instance-index *number* default-ds statistics anno-msg-rx *number*

Tree anno-msg-rx

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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anno-msg-tx *number*

Description	Specifies the number of announce messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics anno-msg-tx *number*
Tree	anno-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rx *number*

Description	Specifies the number of delay-req messages received
Context	system sync ptp instance instance-index *number* default-ds statistics del-req-msg-rx *number*
Tree	del-req-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-tx *number*

Description	Specifies the number of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics del-req-msg-tx *number*
Tree	del-req-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rx *number*

Description	Specifies the number of delay-resp messages received
Context	system sync ptp instance instance-index *number* default-ds statistics del-resp-msg-rx *number*
Tree	del-resp-msg-rx

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-tx *number*

Description	Specifies the number of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics del-resp-msg-tx *number*
Tree	del-resp-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-high-packet-loss *number*

Description	The number of events with high packet loss for delay req packets
Context	system sync ptp instance instance-index *number* default-ds statistics delay-high-packet-loss *number*
Tree	delay-high-packet-loss
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-packet-loss *number*

Description	The number of events with detected packet loss for the delay request/response packets
Context	system sync ptp instance instance-index *number* default-ds statistics delay-packet-loss *number*
Tree	delay-packet-loss
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discards

Description	Enter the discards context Aggregate discard statistics for the PTP clock
Context	system sync ptp instance instance-index *number* default-ds statistics discards
Tree	discards
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alternate-master *number*

Description	Specifies the number of alternate master messages that were discarded
Context	system sync ptp instance instance-index *number* default-ds statistics discards alternate-master *number*
Tree	alternate-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-domain *number*

Description	Specifies the number of bad domain messages that were discarded
Context	system sync ptp instance instance-index *number* default-ds statistics discards bad-domain *number*
Tree	bad-domain
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-steps-removed-exceeded *number*

Description	Specifies the number of maximum steps-removed exceeded messages that were discarded
Context	system sync ptp instance instance-index *number* default-ds statistics discards max-steps-removed-exceeded *number*
Tree	max-steps-removed-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other *number*

Description	Specifies the number of other messages that were discarded
Context	system sync ptp instance instance-index *number* default-ds statistics discards other *number*
Tree	other
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-of-sequence *number*

Description	Specifies the number of out of sequence messages that were discarded
Context	system sync ptp instance instance-index *number* default-ds statistics discards out-of-sequence *number*
Tree	out-of-sequence
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer-disabled *number*

Description	Specifies the number of PTP messages that were discarded from disabled PTP peer Occurs when a PTP peer has been administratively disabled. This information is only available for configured and discovered peers.
Context	system sync ptp instance instance-index *number* default-ds statistics discards peer-disabled *number*
Tree	peer-disabled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* default-ds statistics follow-up-msg-rx *number*
Tree	follow-up-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics follow-up-msg-tx *number*
Tree	follow-up-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-msg-rate

Description	Enter the multicast-msg-rate context Aggregate multicast message rates for the PTP clock

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Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate
Tree	multicast-msg-rate
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of announce messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate anno-msg-rate-rx *decimal-number*
Tree	anno-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of announce messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate anno-msg-rate-tx *decimal-number*
Tree	anno-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of delay-req messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate del-req-msg-rate-rx *decimal-number*
Tree	del-req-msg-rate-rx
Units	messages-per-second

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate del-req-msg-rate-tx *decimal-number*
Tree	del-req-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of delay-resp messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate del-resp-msg-rate-rx *decimal-number*
Tree	del-resp-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate del-resp-msg-rate-tx *decimal-number*
Tree	del-resp-msg-rate-tx
Units	messages-per-second
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of follow-up messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate follow-up-msg-rate-rx *decimal-number*
Tree	follow-up-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate follow-up-msg-rate-tx *decimal-number*
Tree	follow-up-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rate-rx *decimal-number*

Description	Specifies the rate of messages of other messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate other-rate-rx *decimal-number*
Tree	other-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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signaling-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of signaling messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate signaling-msg-rate-rx *decimal-number*
Tree	signaling-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of signaling messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate signaling-msg-rate-tx *decimal-number*
Tree	signaling-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of sync messages received
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate sync-msg-rate-rx *decimal-number*
Tree	sync-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of sync messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics multicast-msg-rate sync-msg-rate-tx *decimal-number*
Tree	sync-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rx *number*

Description	Specifies the number of other messages received
Context	system sync ptp instance instance-index *number* default-ds statistics other-rx *number*
Tree	other-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-msg-rx *number*
Tree	signaling-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-msg-tx *number*

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Tree	signaling-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-uni-neg-tlv

Description	Enter the signaling-uni-neg-tlv context Counts of different unicast negotiation TLVs
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv
Tree	signaling-uni-neg-tlv
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-rx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-anno-rx *number*
Tree	ack-cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-tx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-anno-tx *number*
Tree	ack-cancel-anno-tx
Default	0

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-rx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-delay-resp-rx *number*
Tree	ack-cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-tx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-delay-resp-tx *number*
Tree	ack-cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-rx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-sync-rx *number*
Tree	ack-cancel-sync-rx
Default	0

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-tx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv ack-cancel-sync-tx *number*
Tree	ack-cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-rx *number*

Description	Specifies the number of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-anno-rx *number*
Tree	cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-tx *number*

Description	Specifies the number of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-anno-tx *number*
Tree	cancel-anno-tx
Default	0

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-rx *number*

Description	Specifies the number of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-delay-resp-rx *number*
Tree	cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-tx *number*

Description	Specifies the number of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-delay-resp-tx *number*
Tree	cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-rx *number*

Description	Specifies the number of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-sync-rx *number*
Tree	cancel-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-tx *number*

Description	Specifies the number of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv cancel-sync-tx *number*
Tree	cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-rx *number*

Description	Specifies the number of grants for announce messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-anno-rx *number*
Tree	grant-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-tx *number*

Description	Specifies the number of grants for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-anno-tx *number*
Tree	grant-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-rx *number*

Description	Specifies the number of grants for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-delay-resp-rx *number*
Tree	grant-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-tx *number*

Description	Specifies the number of grants for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-delay-resp-tx *number*
Tree	grant-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-rx *number*

Description	Specifies the number of grants for sync messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-sync-rx *number*
Tree	grant-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-tx *number*

Description	Specifies the number of grants for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv grant-sync-tx *number*
Tree	grant-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-tlv *number*

Description	The count of unsupported signaling message TLVs received.
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv other-tlv *number*
Tree	other-tlv
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-rx *number*

Description	Specifies the number of rejections for announce messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-anno-rx *number*
Tree	reject-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-tx *number*

Description	Specifies the number of rejections for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-anno-tx *number*
Tree	reject-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-rx *number*

Description	Specifies the number of rejections for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-delay-resp-rx *number*
Tree	reject-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-tx *number*

Description	Specifies the number of rejections for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-delay-resp-tx *number*
Tree	reject-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-rx *number*

Description	Specifies the number of rejections for sync messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-sync-rx *number*
Tree	reject-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-tx *number*

Description	Specifies the number of rejections for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv reject-sync-tx *number*
Tree	reject-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-rx *number*

Description	Specifies the number of requests for announce messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-anno-rx *number*
Tree	request-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-tx *number*

Description	Specifies the number of requests for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-anno-tx *number*
Tree	request-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-rx *number*

Description	Specifies the number of requests for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-delay-resp-rx *number*
Tree	request-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-tx *number*

Description	Specifies the number of requests for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-delay-resp-tx *number*
Tree	request-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-rx *number*

Description	Specifies the number of requests for sync messages have been received
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-sync-rx *number*
Tree	request-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-tx *number*

Description	Specifies the number of requests for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics signaling-uni-neg-tlv request-sync-tx *number*
Tree	request-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-high-packet-loss *number*

Description	The number of events with high packet loss of sync packets
Context	system sync ptp instance instance-index *number* default-ds statistics sync-high-packet-loss *number*
Tree	sync-high-packet-loss
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-msg-rx *number*

Description Specifies the number of sync messages received

Context system sync ptp instance instance-index *number* default-ds statistics sync-msg-rx *number*

Tree sync-msg-rx

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-tx *number*

Description Specifies the number of sync messages transmitted

Context system sync ptp instance instance-index *number* default-ds statistics sync-msg-tx *number*

Tree sync-msg-tx

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-packet-loss *number*

Description The number of events with detected packet loss of sync packets from the master clock

Context system sync ptp instance instance-index *number* default-ds statistics sync-packet-loss *number*

Tree sync-packet-loss

Default 0

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-msg-rate

Description Enter the unicast-msg-rate context

Aggregate unicast message rates for the PTP clock

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Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate
Tree	unicast-msg-rate
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of announce messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate anno-msg-rate-rx *decimal-number*
Tree	anno-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of announce messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate anno-msg-rate-tx *decimal-number*
Tree	anno-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of delay-req messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate del-req-msg-rate-rx *decimal-number*
Tree	del-req-msg-rate-rx
Units	messages-per-second

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate del-req-msg-rate-tx *decimal-number*
Tree	del-req-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of delay-resp messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate del-resp-msg-rate-rx *decimal-number*
Tree	del-resp-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate del-resp-msg-rate-tx *decimal-number*
Tree	del-resp-msg-rate-tx
Units	messages-per-second
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of follow-up messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate follow-up-msg-rate-rx *decimal-number*
Tree	follow-up-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate follow-up-msg-rate-tx *decimal-number*
Tree	follow-up-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rate-rx *decimal-number*

Description	Specifies the rate of messages of other messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate other-rate-rx *decimal-number*
Tree	other-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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signaling-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of signaling messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate signaling-msg-rate-rx *decimal-number*
Tree	signaling-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of signaling messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate signaling-msg-rate-tx *decimal-number*
Tree	signaling-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-rate-rx *decimal-number*

Description	Specifies the rate of messages of sync messages received
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate sync-msg-rate-rx *decimal-number*
Tree	sync-msg-rate-rx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-msg-rate-tx *decimal-number*

Description	Specifies the rate of messages of sync messages transmitted
Context	system sync ptp instance instance-index *number* default-ds statistics unicast-msg-rate sync-msg-rate-tx *decimal-number*
Tree	sync-msg-rate-tx
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-recovery-engine

Description	Enter the time-recovery-engine context
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine
Tree	time-recovery-engine
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-adjustment *number*

Description	Specifies the last adjustment in nanoseconds to the local time of the PTP clock
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine last-adjustment *number*
Tree	last-adjustment
Units	nanoseconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-adjustment-timestamp *string*

Description	The time when last-adjustment was last calculated

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Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine last-adjustment-timestamp *string*
Tree	last-adjustment-timestamp
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

recovery-state *keyword*

Description	Specifies the current state of the time recovery engine in the PTP clock
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine recovery-state *keyword*
Tree	recovery-state
Options	• not-applicable Not applicable to time recovery • initial Initializing state • acquiring Acquiring state • holdover Holdover state • locked Locked state
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state-last-changed *string*

Description	Specifies the last occurrence of a ptp state change for the time recovery engine
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine state-last-changed *string*
Tree	state-last-changed
String Length	20 to 32

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Time recovery engine state statistics for the PTP clock
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delay-too-much-pdv *number*

Description	The number of events with high PDV for delay request/response packets for time recovery
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics delay-too-much-pdv *number*
Tree	delay-too-much-pdv
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-too-much-pdv *number*

Description	The number of events with high PDV for sync packets for time recovery
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics sync-too-much-pdv *number*
Tree	sync-too-much-pdv
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-acquiring *number*

Description	Specifies the number of seconds while in Acquiring state
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics time-in-acquiring *number*
Tree	time-in-acquiring
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-holdover *number*

Description	Specifies the number of seconds while in Holdover state
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics time-in-holdover *number*
Tree	time-in-holdover
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-in-initial *number*

Description	Specifies the number of seconds while in Initializing state
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics time-in-initial *number*
Tree	time-in-initial
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-in-locked *number*

Description	Specifies the number of seconds while in Locked state
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics time-in-locked *number*
Tree	time-in-locked
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

two-step-flag *boolean*

Description	Indicates if the clock is operating in two-step mode
Context	system sync ptp instance instance-index *number* default-ds two-step-flag *boolean*
Tree	two-step-flag
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

within-holdover-spec-timer *number*

Description	Holdover time after primary reference time source loss
Context	system sync ptp instance instance-index *number* default-ds within-holdover-spec-timer *number*
Tree	within-holdover-spec-timer
Range	0 to 3600
Default	600
Units	seconds
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-ds

Description Enter the parent-ds context

The parent data set of the clock

Context system sync ptp instance instance-index *number* parent-ds

Tree parent-ds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-clock-quality

Description Enter the grandmaster-clock-quality context

The clockQuality of the grandmaster clock

Context system sync ptp instance instance-index *number* parent-ds grandmaster-clock-quality

Tree grandmaster-clock-quality

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-accuracy *number*

Description The clockAccuracy indicates the expected accuracy of the clock

Context system sync ptp instance instance-index *number* parent-ds grandmaster-clock-quality clock-accuracy *number*

Tree clock-accuracy

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clock-class *number*

Description	The clockClass denotes the traceability of the time or frequency distributed by the clock
Context	system sync ptp instance instance-index *number* parent-ds grandmaster-clock-quality clock-class *number*
Tree	clock-class
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset-scaled-log-variance *number*

Description	The offsetScaledLogVariance provides an estimate of the variations of the clock
Context	system sync ptp instance instance-index *number* parent-ds grandmaster-clock-quality offset-scaled-log-variance *number*
Tree	offset-scaled-log-variance
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-identity *binary*

Description	The clockIdentity of the grandmaster clock
Context	system sync ptp instance instance-index *number* parent-ds grandmaster-identity *binary*
Tree	grandmaster-identity
String Length	8
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-priority1 *number*

Description	The priority1 attribute of the grandmaster clock

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Context	system sync ptp instance instance-index *number* parent-ds grandmaster-priority1 *number*
Tree	grandmaster-priority1
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-priority2 *number*

Description	The priority2 attribute of the grandmaster clock
Context	system sync ptp instance instance-index *number* parent-ds grandmaster-priority2 *number*
Tree	grandmaster-priority2
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-port-identity

Description	Enter the parent-port-identity context The portIdentity of the port on the master
Context	system sync ptp instance instance-index *number* parent-ds parent-port-identity
Tree	parent-port-identity
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-identity *binary*

Description	Identity of the parent clock
Context	system sync ptp instance instance-index *number* parent-ds parent-port-identity clock-identity *binary*
Tree	clock-identity
String Length	8
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-number *number*

Description	Port number of the parent clock
Context	system sync ptp instance instance-index *number* parent-ds parent-port-identity port-number *number*
Tree	port-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-address

Description	Enter the protocol-address context The protocol address of the PTP Port that issues the Sync messages
Context	system sync ptp instance instance-index *number* parent-ds protocol-address
Tree	protocol-address
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip

Description	Enter the ip context
Context	system sync ptp instance instance-index *number* parent-ds protocol-address ip
Tree	ip
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *(ipv4-address | ipv6-address)*

Description	IP address for the PTP peer
Context	system sync ptp instance instance-index *number* parent-ds protocol-address ip ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Network instance containing the IP address
Context	system sync ptp instance instance-index *number* parent-ds protocol-address ip network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-address *string*

Description	The MAC address of the PTP port This is only valid for PTP over ethernet encapsulation.
Context	system sync ptp instance instance-index *number* parent-ds protocol-address mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-protocol *identityref*

Description	Protocol used by a PTP instance to transport PTP messages

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Context system sync ptp instance instance-index *number* parent-ds protocol-address network-protocol *identityref*

Tree network-protocol

Options

- udp-ipv4

  UDP on IPv4. Numeric value is 0001 hex
- udp-ipv6

  UDP on IPv6. Numeric value is 0002 hex
- ieee802-3

  IEEE Std 802.3 (Ethernet). Numeric value is 0003 hex
- devicenet

  DeviceNet. Numeric value is 0004 hex
- controlnet

  ControlNet. Numeric value is 0005 hex
- profinet

  PROFINET. Numeric value is 0006 hex
- otn

  Optical Transport Network (OTN). Numeric value is 0007 hex
- unknown

  Unknown. Numeric value is FFFE hex

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-cfg-ip-list port-index *number*

Description List of port data sets for configured IP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number*

Tree port-ds-cfg-ip-list

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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port-index *number*

Description Index into the port-ds list

This is not the PTP port number. Configurable ports use port indices 1 through 999 but there is a limit on the overall number of these configured ports based on the platform and software release.

The data sets (i.e., information model) of IEEE Std 1588-2008 specify a member portDS.portIdentity, which uses a typed struct with members clock Identity and portNumber.

In this YANG data model, portIdentity is not modeled in the port-ds. However, its members are provided as follows: portIdentity.portNumber is provided as this ptp-port-number leaf in port-ds, and portIdentity.clockIdentity is provided as the clock-identity leaf in default-ds of the instance (i.e., ../../default-ds/clock-identity).

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number*

Range 1 to 999

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description The administrative state of the ptp port

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

announce-receipt-timeout *number*

Description Sets the time limit for missed Announce packets before the master clock is deemed down

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This command configures the announceReceiptTimeout value for all peer associations. This defines the number of Announce message intervals that must expire with no received Announce messages before declaring an ANNOUNCE_RECEIPT_TIMEOUT event. To change this setting, refer to announce-receipt-timeout in the Default data set.

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* announce-receipt-timeout *number*

Tree announce-receipt-timeout

Range 2 to 10

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-master *boolean*

Description Indicates if this peer was selected by the BMCA to be the best master

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* best-master *boolean*

Tree best-master

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-identity *binary*

Description Identity of the peer clock

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* clock-identity *binary*

Tree clock-identity

String Length 8

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-clock-quality

Description Enter the grandmaster-clock-quality context

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The clock quality of the grandmaster clock in the last Announce message received from this peer

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-clock-quality

Tree grandmaster-clock-quality

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-accuracy *number*

Description The clockAccuracy indicates the expected accuracy of the clock

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-clock-quality clock-accuracy *number*

Tree clock-accuracy

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-class *number*

Description The clockClass denotes the traceability of the time or frequency distributed by the clock

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-clock-quality clock-class *number*

Tree clock-class

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

offset-scaled-log-variance *number*

Description The offsetScaledLogVariance provides an estimate of the variations of the clock

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-clock-quality offset-scaled-log-variance *number*

Tree offset-scaled-log-variance

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-identity *binary*

Description	The clockIdentity of the grandmaster clock in the last Announce message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-identity *binary*
Tree	grandmaster-identity
String Length	8
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-priority1 *number*

Description	The priority1 of the grandmaster clock in the last Announce message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-priority1 *number*
Tree	grandmaster-priority1
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grandmaster-priority2 *number*

Description	The priority2 of the grandmaster clock in the last Announce message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* grandmaster-priority2 *number*
Tree	grandmaster-priority2
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-rx-interface *reference*

Description	Interface used for the last PTP message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* last-rx-interface *reference*
Tree	last-rx-interface
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-tx-interface *reference*

Description	Interface used for the last PTP message transmitted to this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* last-tx-interface *reference*
Tree	last-tx-interface
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-priority *number*

Description	Specifies the local priority of the ptp port
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* local-priority *number*
Tree	local-priority
Range	1 to 255
Default	128
Configurable	True

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-announce-interval *number*

Description The base-2 logarithm of the mean announceInterval

Mean time interval between successive Announce messages. To change this setting, refer to log-announce-interval in the Default data set.

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* log-announce-interval *number*

Tree log-announce-interval

Range -3 to 4

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-min-delay-req-interval *number*

Description The base-2 logarithm of the minDelayReqInterval

The minimum permitted mean time interval between successive Delay_Req messages. The value is not configurable. The delay messages use the same interval as for Sync messages (log-sync-interval)

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* log-min-delay-req-interval *number*

Tree log-min-delay-req-interval

Range -6 to 0

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-sync-interval *number*

Description The base-2 logarithm of the mean SyncInterval for multicast messages

The default log sync interval is defined by the profile. itug8275dot1: -4 (16 messages per second) itug8275dot2: -6 (64 messages per second) The rates for unicast transmissions are negotiated separately on a per-port basis and are not constrained by this attribute.

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Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* log-sync-interval *number*
Tree	log-sync-interval
Range	-6 to 0
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

major-version-number *number*

Description	The PTP major version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* major-version-number *number*
Tree	major-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minor-version-number *number*

Description	The PTP minor version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* minor-version-number *number*
Tree	minor-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-clock *boolean*

Description	Indicates if this peer is the current parent clock of this PTP clock May differ from best-master due to use of local GNSS as time source.
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* parent-clock *boolean*
Tree	parent-clock
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer

Description	Enter the peer context
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* peer
Tree	peer
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address for the PTP peer Only Unicast addresses are supported
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* peer ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Network instance used by this peer All configured peers use the same network-instance. It can be configured at the top level of the ptp tree.
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* peer network-instance *reference*
Tree	network-instance
Reference	network-instance name *string*
Configurable	False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-number *number*

Description Port number of the peer clock

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* port-number *number*

Tree port-number

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-state *keyword*

Description Current state associated with the port

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* port-state *keyword*

Tree port-state

Options

- initializing

  The port is initializing its data sets, hardware, and communication facilities
- faulty

  The port is in the fault state
- disabled

  The port is disabled and is not communicating PTP messages
- listening

  The port is listening for an Announce message
- pre-master

  The port is in the pre-master state
- master

  The port is behaving as a master port
- passive

  The port is in the passive state
- uncalibrated

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A master port has been selected, but the port is still in the uncalibrated state

- slave

  The port is synchronizing to the selected master port

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp-port-number *number*

Description IEEE Std 1588 portNumber

This is the port-number that will appear in messages sent for this port-index.

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* ptp-port-number *number*

Tree ptp-port-number

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Total messages for a specific PTP port

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rx *number*

Description Specifies the number of announce messages received

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics anno-msg-rx *number*

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Tree	anno-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-tx *number*

Description	Specifies the number of announce messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics anno-msg-tx *number*
Tree	anno-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rx *number*

Description	Specifies the number of delay-req messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics del-req-msg-rx *number*
Tree	del-req-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-tx *number*

Description	Specifies the number of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics del-req-msg-tx *number*
Tree	del-req-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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del-resp-msg-rx *number*

Description	Specifies the number of delay-resp messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics del-resp-msg-rx *number*
Tree	del-resp-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-tx *number*

Description	Specifies the number of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics del-resp-msg-tx *number*
Tree	del-resp-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discards

Description	Enter the discards context Aggregate discard statistics for the PTP clock
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards
Tree	discards
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alternate-master *number*

Description	Specifies the number of alternate master messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards alternate-master *number*

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Tree	alternate-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-domain *number*

Description	Specifies the number of bad domain messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards bad-domain *number*
Tree	bad-domain
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-steps-removed-exceeded *number*

Description	Specifies the number of maximum steps-removed exceeded messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards max-steps-removed-exceeded *number*
Tree	max-steps-removed-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other *number*

Description	Specifies the number of other messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards other *number*
Tree	other

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-of-sequence *number*

Description	Specifies the number of out of sequence messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards out-of-sequence *number*
Tree	out-of-sequence
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-disabled *number*

Description	Specifies the number of PTP messages that were discarded from disabled PTP peer Occurs when a PTP peer has been administratively disabled. This information is only available for configured and discovered peers.
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics discards peer-disabled *number*
Tree	peer-disabled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics follow-up-msg-rx *number*
Tree	follow-up-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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follow-up-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics follow-up-msg-tx *number*
Tree	follow-up-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rx *number*

Description	Specifies the number of other messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics other-rx *number*
Tree	other-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-msg-rx *number*
Tree	signaling-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-msg-tx *number*
Tree	signaling-msg-tx

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-uni-neg-tlv

Description	Enter the signaling-uni-neg-tlv context Counts of different unicast negotiation TLVs
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv
Tree	signaling-uni-neg-tlv
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-rx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-anno-rx *number*
Tree	ack-cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-tx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-anno-tx *number*
Tree	ack-cancel-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-rx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-delay-resp-rx *number*
Tree	ack-cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-tx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-delay-resp-tx *number*
Tree	ack-cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-rx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-sync-rx *number*
Tree	ack-cancel-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-tx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-sync-tx *number*
Tree	ack-cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-rx *number*

Description	Specifies the number of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-anno-rx *number*
Tree	cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-tx *number*

Description	Specifies the number of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-anno-tx *number*
Tree	cancel-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-rx *number*

Description	Specifies the number of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-delay-resp-rx *number*
Tree	cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-tx *number*

Description	Specifies the number of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-delay-resp-tx *number*
Tree	cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-rx *number*

Description	Specifies the number of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-sync-rx *number*
Tree	cancel-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-tx *number*

Description	Specifies the number of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-sync-tx *number*
Tree	cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-rx *number*

Description	Specifies the number of grants for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-anno-rx *number*
Tree	grant-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-tx *number*

Description	Specifies the number of grants for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-anno-tx *number*
Tree	grant-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-rx *number*

Description	Specifies the number of grants for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-delay-resp-rx *number*
Tree	grant-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-tx *number*

Description	Specifies the number of grants for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-delay-resp-tx *number*
Tree	grant-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-rx *number*

Description	Specifies the number of grants for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-sync-rx *number*
Tree	grant-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-tx *number*

Description	Specifies the number of grants for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-sync-tx *number*
Tree	grant-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-tlv *number*

Description	The count of unsupported signaling message TLVs received.
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv other-tlv *number*
Tree	other-tlv
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-rx *number*

Description	Specifies the number of rejections for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-anno-rx *number*
Tree	reject-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-tx *number*

Description	Specifies the number of rejections for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-anno-tx *number*
Tree	reject-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-rx *number*

Description	Specifies the number of rejections for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-delay-resp-rx *number*
Tree	reject-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-tx *number*

Description	Specifies the number of rejections for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-delay-resp-tx *number*
Tree	reject-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-rx *number*

Description	Specifies the number of rejections for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-sync-rx *number*
Tree	reject-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-tx *number*

Description	Specifies the number of rejections for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-sync-tx *number*
Tree	reject-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-rx *number*

Description	Specifies the number of requests for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-anno-rx *number*
Tree	request-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-tx *number*

Description	Specifies the number of requests for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-anno-tx *number*
Tree	request-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-rx *number*

Description	Specifies the number of requests for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-delay-resp-rx *number*
Tree	request-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-tx *number*

Description	Specifies the number of requests for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-delay-resp-tx *number*
Tree	request-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-rx *number*

Description	Specifies the number of requests for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-sync-rx *number*
Tree	request-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-tx *number*

Description	Specifies the number of requests for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics signaling-uni-neg-tlv request-sync-tx *number*
Tree	request-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-rx *number*

Description	Specifies the number of sync messages received
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics sync-msg-rx *number*
Tree	sync-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-msg-tx *number*

Description	Specifies the number of sync messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* statistics sync-msg-tx *number*
Tree	sync-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

steps-removed *number*

Description	The stepsRemoved in the last Announce message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* steps-removed *number*
Tree	steps-removed
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-negotiation

Description	Enter the unicast-negotiation context Details of each negotiation session
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation
Tree	unicast-negotiation
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-announce

Description	Enter the rx-announce context Statistics for receive announce sessions

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Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-announce
Tree	rx-announce
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description	The duration, in seconds, requested/granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-announce duration *number*
Tree	duration
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description	The packet rate requested or granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-announce log-interval *number*
Tree	log-interval
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description	Indicates the state of the negotiation
Context	system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-announce state *keyword*
Tree	state

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Options
- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-announce time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-delay-resp

Description Enter the rx-delay-resp context

Statistics for receive delay-resp sessions

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-delay-resp

Tree rx-delay-resp

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

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Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-delay-resp duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-delay-resp log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-delay-resp state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-delay-resp time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-sync

Description Enter the rx-sync context

Statistics for receive sync sessions

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-sync

Tree rx-sync

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-sync duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-sync log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-sync state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation rx-sync time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-announce

Description Enter the tx-announce context

Statistics for transmit announce sessions

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-announce

Tree tx-announce

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-announce duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-announce log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-announce state *keyword*

Tree state

Options
- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-announce time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-delay-resp

Description Enter the tx-delay-resp context

Statistics for transmit delay-resp sessions

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-delay-resp

Tree tx-delay-resp

Configurable False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-delay-resp duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-delay-resp log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-delay-resp state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired

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- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-delay-resp time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-sync

Description Enter the tx-sync context

Statistics for transmit sync sessions

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-sync

Tree tx-sync

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-sync duration *number*

Tree duration

Units seconds

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Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-sync log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-sync state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-cfg-ip-list port-index *number* unicast-negotiation tx-sync time-of-last-grant *string*

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Tree	time-of-last-grant
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-dsc-ip-list port-index *number*

Description	List of port data sets for discovered IP peers
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number*
Tree	port-ds-dsc-ip-list
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-index *number*

Description	Index into the port-ds list This is not the PTP port number. Discovered IP peer ports are created based on Unicast negotiation. If an IP peer is a discovered IP peer and later that IP address is entered as a configured peer, then port DS information will move from this list to teh port-ds-cfg-ip-list to cover both aspects of communication with this peer. The data sets (i.e., information model) of IEEE Std 1588-2008 specify a member portDS.portIdentity, which uses a typed struct with members clock Identity and portNumber. In this YANG data model, portIdentity is not modeled in the port-ds. However, its members are provided as follows: portIdentity.portNumber is provided as this ptp-port-number leaf in port-ds, and portIdentity.clockIdentity is provided as the clock-identity leaf in default-ds of the instance (i.e., ../../default-ds/clock-identity).
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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last-rx-interface *reference*

Description	Interface used for the last PTP message received from this peer
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* last-rx-interface *reference*
Tree	last-rx-interface
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-tx-interface *reference*

Description	Interface used for the last PTP message transmitted to this peer
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* last-tx-interface *reference*
Tree	last-tx-interface
Reference	interface name *string*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-announce-interval *number*

Description	The base-2 logarithm of the mean announceInterval Mean time interval between successive Announce messages. This reports the value that was established during the unicast negotiation.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* log-announce-interval *number*
Tree	log-announce-interval
Range	-3 to 4
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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log-min-delay-req-interval *number*

Description	The base-2 logarithm of the minDelayReqInterval This reports the value that was established during the unicast negotiation.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* log-min-delay-req-interval *number*
Tree	log-min-delay-req-interval
Range	-6 to 0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-sync-interval *number*

Description	The base-2 logarithm of the mean SyncInterval for multicast messages This reports the value that was established during the unicast negotiation.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* log-sync-interval *number*
Tree	log-sync-interval
Range	-6 to 0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

major-version-number *number*

Description	The PTP major version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* major-version-number *number*
Tree	major-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minor-version-number *number*

Description	The PTP minor version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* minor-version-number *number*
Tree	minor-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer

Description	Enter the peer context
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* peer
Tree	peer
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-address *(ipv4-address | ipv6-address)*

Description	IP address for the PTP peer Only Unicast addresses are supported
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* peer ip-address *(ipv4-address | ipv6-address)*
Tree	ip-address
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance *reference*

Description	Network instance that owns the PTP peer
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* peer network-instance *reference*

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Tree network-instance

Reference network-instance name *string*

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-state *keyword*

Description Current state associated with the port

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* port-state *keyword*

Tree port-state

Options

- initializing

  The port is initializing its data sets, hardware, and communication facilities
- faulty

  The port is in the fault state
- disabled

  The port is disabled and is not communicating PTP messages
- listening

  The port is listening for an Announce message
- pre-master

  The port is in the pre-master state
- master

  The port is behaving as a master port
- passive

  The port is in the passive state
- uncalibrated

  A master port has been selected, but the port is still in the uncalibrated state
- slave

  The port is synchronizing to the selected master port

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ptp-port-number *number*

Description	IEEE Std 1588 portNumber This is the port-number that will appear in messages sent for this port-index.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* ptp-port-number *number*
Tree	ptp-port-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Total messages for a specific PTP port This container is not used with PTP special ports (gnss).
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rx *number*

Description	Specifies the number of announce messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics anno-msg-rx *number*
Tree	anno-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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anno-msg-tx *number*

Description	Specifies the number of announce messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics anno-msg-tx *number*
Tree	anno-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rx *number*

Description	Specifies the number of delay-req messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics del-req-msg-rx *number*
Tree	del-req-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-tx *number*

Description	Specifies the number of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics del-req-msg-tx *number*
Tree	del-req-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-rx *number*

Description	Specifies the number of delay-resp messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics del-resp-msg-rx *number*
Tree	del-resp-msg-rx

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-tx *number*

Description	Specifies the number of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics del-resp-msg-tx *number*
Tree	del-resp-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discards

Description	Enter the discards context Aggregate discard statistics for the PTP clock
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards
Tree	discards
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alternate-master *number*

Description	Specifies the number of alternate master messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards alternate-master *number*
Tree	alternate-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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bad-domain *number*

Description	Specifies the number of bad domain messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards bad-domain *number*
Tree	bad-domain
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-steps-removed-exceeded *number*

Description	Specifies the number of maximum steps-removed exceeded messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards max-steps-removed-exceeded *number*
Tree	max-steps-removed-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other *number*

Description	Specifies the number of other messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards other *number*
Tree	other
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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out-of-sequence *number*

Description	Specifies the number of out of sequence messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards out-of-sequence *number*
Tree	out-of-sequence
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-disabled *number*

Description	Specifies the number of PTP messages that were discarded from disabled PTP peer Occurs when a PTP peer has been administratively disabled. This information is only available for configured and discovered peers.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics discards peer-disabled *number*
Tree	peer-disabled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics follow-up-msg-rx *number*
Tree	follow-up-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted

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Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics follow-up-msg-tx *number*
Tree	follow-up-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rx *number*

Description	Specifies the number of other messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics other-rx *number*
Tree	other-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-msg-rx *number*
Tree	signaling-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-msg-tx *number*
Tree	signaling-msg-tx
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-uni-neg-tlv

Description	Enter the signaling-uni-neg-tlv context Counts of different unicast negotiation TLVs
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv
Tree	signaling-uni-neg-tlv
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-rx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-anno-rx *number*
Tree	ack-cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-anno-tx *number*

Description	Specifies the number of acknowledgements of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-anno-tx *number*
Tree	ack-cancel-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-rx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-delay-resp-rx *number*
Tree	ack-cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-delay-resp-tx *number*

Description	Specifies the number of acknowledgements of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-delay-resp-tx *number*
Tree	ack-cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-rx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-sync-rx *number*
Tree	ack-cancel-sync-rx
Default	0

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ack-cancel-sync-tx *number*

Description	Specifies the number of acknowledgements of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv ack-cancel-sync-tx *number*
Tree	ack-cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-rx *number*

Description	Specifies the number of cancels for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-anno-rx *number*
Tree	cancel-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-anno-tx *number*

Description	Specifies the number of cancels for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-anno-tx *number*
Tree	cancel-anno-tx
Default	0

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-rx *number*

Description	Specifies the number of cancels for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-delay-resp-rx *number*
Tree	cancel-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-delay-resp-tx *number*

Description	Specifies the number of cancels for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-delay-resp-tx *number*
Tree	cancel-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-rx *number*

Description	Specifies the number of cancels for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-sync-rx *number*
Tree	cancel-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel-sync-tx *number*

Description	Specifies the number of cancels for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv cancel-sync-tx *number*
Tree	cancel-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-rx *number*

Description	Specifies the number of grants for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-anno-rx *number*
Tree	grant-anno-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-anno-tx *number*

Description	Specifies the number of grants for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-anno-tx *number*
Tree	grant-anno-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-rx *number*

Description	Specifies the number of grants for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-delay-resp-rx *number*
Tree	grant-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-delay-resp-tx *number*

Description	Specifies the number of grants for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-delay-resp-tx *number*
Tree	grant-delay-resp-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-rx *number*

Description	Specifies the number of grants for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-sync-rx *number*
Tree	grant-sync-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

grant-sync-tx *number*

Description	Specifies the number of grants for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv grant-sync-tx *number*
Tree	grant-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-tlv *number*

Description	The count of unsupported signaling message TLVs received.
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv other-tlv *number*
Tree	other-tlv
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-rx *number*

Description	Specifies the number of rejections for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-anno-rx *number*
Tree	reject-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-anno-tx *number*

Description	Specifies the number of rejections for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-anno-tx *number*
Tree	reject-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-rx *number*

Description	Specifies the number of rejections for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-delay-resp-rx *number*
Tree	reject-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-delay-resp-tx *number*

Description	Specifies the number of rejections for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-delay-resp-tx *number*
Tree	reject-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-rx *number*

Description	Specifies the number of rejections for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-sync-rx *number*
Tree	reject-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reject-sync-tx *number*

Description	Specifies the number of rejections for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv reject-sync-tx *number*
Tree	reject-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-rx *number*

Description	Specifies the number of requests for announce messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-anno-rx *number*
Tree	request-anno-rx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-anno-tx *number*

Description	Specifies the number of requests for announce messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-anno-tx *number*
Tree	request-anno-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-rx *number*

Description	Specifies the number of requests for delay-resp messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-delay-resp-rx *number*
Tree	request-delay-resp-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-delay-resp-tx *number*

Description	Specifies the number of requests for delay-resp messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-delay-resp-tx *number*
Tree	request-delay-resp-tx
Default	0
Configurable	False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-rx *number*

Description	Specifies the number of requests for sync messages have been received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-sync-rx *number*
Tree	request-sync-rx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

request-sync-tx *number*

Description	Specifies the number of requests for sync messages have been transmitted
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics signaling-uni-neg-tlv request-sync-tx *number*
Tree	request-sync-tx
Default	0
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-rx *number*

Description	Specifies the number of sync messages received
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics sync-msg-rx *number*
Tree	sync-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sync-msg-tx *number*

Description Specifies the number of sync messages transmitted

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* statistics sync-msg-tx *number*

Tree sync-msg-tx

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-negotiation

Description Enter the unicast-negotiation context

Details of each negotiation session

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation

Tree unicast-negotiation

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-announce

Description Enter the rx-announce context

Statistics for receive announce sessions

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-announce

Tree rx-announce

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

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Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-announce duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-announce log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-announce state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-announce time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-delay-resp

Description Enter the rx-delay-resp context

Statistics for receive delay-resp sessions

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-delay-resp

Tree rx-delay-resp

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-delay-resp duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-delay-resp log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-delay-resp state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-delay-resp time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

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Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-sync

Description Enter the rx-sync context

Statistics for receive sync sessions

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-sync

Tree rx-sync

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-sync duration *number*

Tree duration

Units seconds

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-sync log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-sync state *keyword*

Tree state

Options
- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation rx-sync time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-announce

Description Enter the tx-announce context

Statistics for transmit announce sessions

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-announce

Tree tx-announce

Configurable False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description	The duration, in seconds, requested/granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-announce duration *number*
Tree	duration
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description	The packet rate requested or granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-announce log-interval *number*
Tree	log-interval
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description	Indicates the state of the negotiation
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-announce state *keyword*
Tree	state
Options	• pending • granted • denied • expired

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- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-announce time-of-last-grant *string*

Tree time-of-last-grant

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-delay-resp

Description Enter the tx-delay-resp context

Statistics for transmit delay-resp sessions

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-delay-resp

Tree tx-delay-resp

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description The duration, in seconds, requested/granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-delay-resp duration *number*

Tree duration

Units seconds

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Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description The packet rate requested or granted for unicast transmission between the PTP peers

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-delay-resp log-interval *number*

Tree log-interval

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description Indicates the state of the negotiation

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-delay-resp state *keyword*

Tree state

Options

- pending
- granted
- denied
- expired
- canceled

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description The time when status last changed or the unicast session between the PTP clocks was renewed

Context system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-delay-resp time-of-last-grant *string*

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Tree	time-of-last-grant
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-sync

Description	Enter the tx-sync context Statistics for transmit sync sessions
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-sync
Tree	tx-sync
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duration *number*

Description	The duration, in seconds, requested/granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-sync duration *number*
Tree	duration
Units	seconds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-interval *number*

Description	The packet rate requested or granted for unicast transmission between the PTP peers
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-sync log-interval *number*
Tree	log-interval

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

state *keyword*

Description	Indicates the state of the negotiation
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-sync state *keyword*
Tree	state
Options	• pending • granted • denied • expired • canceled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-of-last-grant *string*

Description	The time when status last changed or the unicast session between the PTP clocks was renewed
Context	system sync ptp instance instance-index *number* port-ds-dsc-ip-list port-index *number* unicast-negotiation tx-sync time-of-last-grant *string*
Tree	time-of-last-grant
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-interface-list port-index *number*

Description	List of port data sets for interfaces
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number*

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Tree	port-ds-interface-list
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-index *number*

Description	Index into the port-ds list This is not the PTP port number. Configurable ports use port indices 1 through 999 but there is a limit on the overall number of these configured ports based on the platform and software release. The data sets (i.e., information model) of IEEE Std 1588-2008 specify a member portDS.portIdentity, which uses a typed struct with members clock Identity and portNumber. In this YANG data model, portIdentity is not modeled in the port-ds. However, its members are provided as follows: portIdentity.portNumber is provided as this ptp-port-number leaf in port-ds, and portIdentity.clockIdentity is provided as the clock-identity leaf in default-ds of the instance (i.e., ../../default-ds/clock-identity).
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number*
Range	1 to 999
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	The administrative state of the ptp port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

announce-receipt-timeout *number*

Description	Sets the time limit for missed Announce packets before the master clock is deemed down This defines the number of Announce message intervals that must expire with no received Announce messages before declaring an ANNOUNCE_RECEIPT_TIMEOUT event. To change this setting, refer to announce-receipt-timeout in the Default data set.
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* announce-receipt-timeout *number*
Tree	announce-receipt-timeout
Range	2 to 10
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

best-master *boolean*

Description	Indicates if this interface was selected by the BMCA to be the best master
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* best-master *boolean*
Tree	best-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dest-mac *keyword*

Description	Configure the MAC address associated with forwardable or non-forwardable
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* dest-mac *keyword*
Tree	dest-mac
Default	forwardable
Options	• forwardable

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The clock uses the forwardable MAC address: 01-1B-19-00-00-00

- non-forwardable

  The clock uses the non-forwardable MAC address: 01-80-C2-00-00-0E

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Local interface used for ptp over ethernet communication

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-priority *number*

Description Specifies the local priority of the ptp port

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* local-priority *number*

Tree local-priority

Range 1 to 255

Default 128

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-announce-interval *number*

Description The base-2 logarithm of the mean announceInterval

Mean time interval between successive Announce messages. To change this setting, refer to log-announce-interval in the Default data set.

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Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* log-announce-interval *number*
Tree	log-announce-interval
Range	-3 to 4
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-min-delay-req-interval *number*

Description	The base-2 logarithm of the minDelayReqInterval The minimum permitted mean time interval between successive Delay_Req messages. The default log-min-delay-req-interval is defined by the profile. itug8275dot1: -4 (16 messages per second) itug8275dot2: -6 (64 messages per second)
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* log-min-delay-req-interval *number*
Tree	log-min-delay-req-interval
Range	-6 to 0
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-sync-interval *number*

Description	The base-2 logarithm of the mean SyncInterval for multicast messages The default log sync interval is defined by the profile. itug8275dot1: -4 (16 messages per second) itug8275dot2: -6 (64 messages per second)
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* log-sync-interval *number*
Tree	log-sync-interval
Range	-6 to 0
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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major-version-number *number*

Description	The PTP major version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* major-version-number *number*
Tree	major-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

master-only *boolean*

Description	Specifies the masterOnly attribute of the ptp port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* master-only *boolean*
Tree	master-only
Default	true
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minor-version-number *number*

Description	The PTP minor version number in use on the port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* minor-version-number *number*
Tree	minor-version-number
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-count *number*

Description	The number of neighbors for the port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-count *number*

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Tree	neighbor-count
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor-list clock-identity *binary* port-number *number*

Description	List of MAC address of all the neighbors of this port
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number*
Tree	neighbor-list
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clock-identity *binary*

Description	The clockIdentity of this neighbor clock
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number*
String Length	8
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-number *number*

Description	The port number of this neighbor clock
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number*
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac-address *string*

Description	Specifies the MAC address of this neighbor
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number* mac-address *string*
Tree	mac-address
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parent-clock *boolean*

Description	Indicates if this neighbor is the current parent clock of this PTP clock
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number* parent-clock *boolean*
Tree	parent-clock
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-message-rate *decimal-number*

Description	The receive message rate from this neighbor clock
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* neighbor-list clock-identity *binary* port-number *number* rx-message-rate *decimal-number*
Tree	rx-message-rate
Units	messages-per-second
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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parent-clock *boolean*

Description Indicates if this interface is the current parent clock of this PTP clock

May differ from best-master due to use of local GNSS as time source.

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* parent-clock *boolean*

Tree parent-clock

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-state *keyword*

Description Current state associated with the port

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* port-state *keyword*

Tree port-state

Options

- initializing

  The port is initializing its data sets, hardware, and communication facilities
- faulty

  The port is in the fault state
- disabled

  The port is disabled and is not communicating PTP messages
- listening

  The port is listening for an Announce message
- pre-master

  The port is in the pre-master state
- master

  The port is behaving as a master port
- passive

  The port is in the passive state
- uncalibrated

  A master port has been selected, but the port is still in the uncalibrated state
- slave

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The port is synchronizing to the selected master port

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp-port-number *number*

Description IEEE Std 1588 portNumber

This is the port-number that will appear in messages sent for this port-index.

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* ptp-port-number *number*

Tree ptp-port-number

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Total messages for a specific PTP port

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-rx *number*

Description Specifies the number of announce messages received

Context system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics anno-msg-rx *number*

Tree anno-msg-rx

Configurable False

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

anno-msg-tx *number*

Description	Specifies the number of announce messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics anno-msg-tx *number*
Tree	anno-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-rx *number*

Description	Specifies the number of delay-req messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics del-req-msg-rx *number*
Tree	del-req-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-req-msg-tx *number*

Description	Specifies the number of delay-req messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics del-req-msg-tx *number*
Tree	del-req-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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del-resp-msg-rx *number*

Description	Specifies the number of delay-resp messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics del-resp-msg-rx *number*
Tree	del-resp-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

del-resp-msg-tx *number*

Description	Specifies the number of delay-resp messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics del-resp-msg-tx *number*
Tree	del-resp-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discards

Description	Enter the discards context Aggregate discard statistics for the PTP clock
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards
Tree	discards
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

alternate-master *number*

Description	Specifies the number of alternate master messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards alternate-master *number*

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Tree	alternate-master
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-domain *number*

Description	Specifies the number of bad domain messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards bad-domain *number*
Tree	bad-domain
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-steps-removed-exceeded *number*

Description	Specifies the number of maximum steps-removed exceeded messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards max-steps-removed-exceeded *number*
Tree	max-steps-removed-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other *number*

Description	Specifies the number of other messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards other *number*
Tree	other

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-of-sequence *number*

Description	Specifies the number of out of sequence messages that were discarded
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards out-of-sequence *number*
Tree	out-of-sequence
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-disabled *number*

Description	Specifies the number of PTP messages that were discarded from disabled PTP peer Occurs when a PTP peer has been administratively disabled. This information is only available for configured and discovered peers.
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics discards peer-disabled *number*
Tree	peer-disabled
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

follow-up-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics follow-up-msg-rx *number*
Tree	follow-up-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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follow-up-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics follow-up-msg-tx *number*
Tree	follow-up-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

other-rx *number*

Description	Specifies the number of other messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics other-rx *number*
Tree	other-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-rx *number*

Description	Specifies the number of follow-up messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics signaling-msg-rx *number*
Tree	signaling-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

signaling-msg-tx *number*

Description	Specifies the number of follow-up messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics signaling-msg-tx *number*
Tree	signaling-msg-tx

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Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-rx *number*

Description	Specifies the number of sync messages received
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics sync-msg-rx *number*
Tree	sync-msg-rx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync-msg-tx *number*

Description	Specifies the number of sync messages transmitted
Context	system sync ptp instance instance-index *number* port-ds-interface-list port-index *number* statistics sync-msg-tx *number*
Tree	sync-msg-tx
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-properties-ds

Description	Enter the time-properties-ds context The timeProperties data set of the clock
Context	system sync ptp instance instance-index *number* time-properties-ds
Tree	time-properties-ds
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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current-utc-offset *number*

Description	The offset between TAI and UTC Only applies when the epoch of the PTP system is the PTP epoch in units of seconds (i.e. when ptp-timescale is TRUE). Otherwise, the value has no meaning.
Context	system sync ptp instance instance-index *number* time-properties-ds current-utc-offset *number*
Tree	current-utc-offset
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-utc-offset-valid *boolean*

Description	When set to true, the current UTC offset is valid
Context	system sync ptp instance instance-index *number* time-properties-ds current-utc-offset-valid *boolean*
Tree	current-utc-offset-valid
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

frequency-traceable *boolean*

Description	If true, the frequency determining the timescale is traceable to a primary reference
Context	system sync ptp instance instance-index *number* time-properties-ds frequency-traceable *boolean*
Tree	frequency-traceable
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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leap59 *boolean*

Description	If true, the last minute of the current UTC day contains 59 seconds
Context	system sync ptp instance instance-index *number* time-properties-ds leap59 *boolean*
Tree	leap59
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

leap61 *boolean*

Description	If true, the last minute of the current UTC day contains 61 seconds
Context	system sync ptp instance instance-index *number* time-properties-ds leap61 *boolean*
Tree	leap61
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp-timescale *boolean*

Description	If true clock timescale of the grandmaster is PTP; false it is ARB (arbitrary)
Context	system sync ptp instance instance-index *number* time-properties-ds ptp-timescale *boolean*
Tree	ptp-timescale
Configurable	False
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-source *keyword*

Description	The source of time used by the grandmaster clock If a value is received that does not map to one of the enumerations, then the reserved value is used

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Context system sync ptp instance instance-index *number* time-properties-ds time-source *keyword*

Tree time-source

Options
- atomic-clock
- gps
- terrestrial-radio
- ptp
- ntp
- hand-set
- other
- internal-oscillator
- reserved

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-traceable *boolean*

Description If true, the timescale and the currentUtcOffset are traceable to a primary reference

Context system sync ptp instance instance-index *number* time-properties-ds time-traceable *boolean*

Tree time-traceable

Configurable False

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp-profile *keyword*

Description Specifies the PTP profile mode for the PTP clock

Context system sync ptp ptp-profile *keyword*

Tree ptp-profile

Default itug8275dot1

Options
- itug8275dot1

  ITU-T G.8275.1 (2014) Profile
- itug8275dot2

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ITU-T G.8275.2 Profile

Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timing-source-net-inst *reference*

Description	Network instance to be used for configured peers This is the network instance that will be used to provide timing into the local clock via PTP over IP.
Context	system sync ptp timing-source-net-inst *reference*
Tree	timing-source-net-inst
Reference	network-instance name *string*
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tftp-server

Description	Enable the tftp-server context
Context	system tftp-server
Tree	tftp-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *reference*

Description	List of network instances to run a TFTP server in
Context	system tftp-server network-instance name *reference*
Tree	network-instance

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *reference*

Description	Reference to a configured network-instance
Context	system tftp-server network-instance name *reference*
Reference	network-instance name *string*
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Administratively enables or disables the TFTP server
Context	system tftp-server network-instance name *reference* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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oper-state *keyword*

Description Details if the server is operationally available

Context system tftp-server network-instance name *reference* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

root-directory *string*

Description	Set the root directory of the TFTP server. If the directory needs to be synchronized to the secondary control card, it is recommended to use a directory under /opt or /srv.
Context	system tftp-server network-instance name *reference* root-directory *string*
Tree	root-directory
Default	/srv/tftpboot
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-address *(ipv4-address | ipv6-address)*

Description	List of IP addresses for the TFTP server to listen on within the network-instance
Context	system tftp-server network-instance name *reference* source-address *(ipv4-address | ipv6-address)*
Tree	source-address
Configurable	True
Platforms	Supported on all platforms except IMGMT

tls

Description	Enter the tls context

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Top-level container for TLS configuration and state

Context system tls

Tree tls

Configurable True

Platforms Supported on all platforms

profile name *string*

Description List of configured TLS profiles

Context system tls profile name *string*

Tree profile

Configurable True

Platforms Supported on all platforms

name *string*

Description Name of the TLS profile

Context system tls profile name *string*

String Length 1 to 231

Configurable True

Platforms Supported on all platforms

authenticate-client *boolean*

Description Defines if the server should authenticate the identity of connecting clients using the trust anchor

This is only applicable when the TLS profile is a server. Client services will ignore this setting.

Context system tls profile name *string* authenticate-client *boolean*

Tree authenticate-client

Default false

Configurable True

Platforms Supported on all platforms

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certificate *string*

Description	Base64 encoded certificate to use with the private key This includes the '-----BEGIN CERTIFICATE-----' and '-----END CERTIFICATE-----' header and footer. Can contain a certificate chain containing multiple certificates separated by '-----BEGIN CERTIFICATE-----' and '-----END CERTIFICATE-----' headers and footers. Must start with the client certificate.
Context	system tls profile name *string* certificate *string*
Tree	certificate
String Length	0 to 102400
Configurable	True
Platforms	Supported on all platforms

certificate-revocation-list *string*

Description	Base64 encoded certificate revocation list This includes the '-----BEGIN X509 CRL' and '-----END X509 CRL' header and footer. Can contain multiple crls separated by '-----BEGIN X509 CRL' and '-----END X509 CRL' headers and footers. If empty, then no CRL verification is performed.
Context	system tls profile name *string* certificate-revocation-list *string*
Tree	certificate-revocation-list
String Length	0 to 5242880
Configurable	True
Platforms	Supported on all platforms

certz

Description	Enter the certz context Information relating to the active certificate and bundle/s as provided via Certz State is provided by the gNSI Certz service, and can be changed using the gNSI.Certz.Rotate RPC
Context	system tls profile name *string* certz
Tree	certz
Configurable	False

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

certificate

Description Enter the certificate context

State relating to the active certificate provided via Certz

Context system tls profile name *string* certz certificate

Tree certificate

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the policy

The maps to the created_on field within a Entity message in the Certz protobuf.

Context system tls profile name *string* certz certificate created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system tls profile name *string* certz certificate version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crl

Description Enter the crl context

State relating to the active certificate revocation list provided via Certz

The list of certificates provided will not be used to validate mTLS or servers, even if those certificates exist within the trust anchor.

Context system tls profile name *string* certz crl

Tree crl

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description The created on timestamp as provided by the gNSI client at the time of uploading the policy

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The maps to the created_on field within a Entity message in the Certz protobuf.

Context system tls profile name *string* certz crl created-on *string*

Tree created-on

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system tls profile name *string* certz crl version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ssl-profile-id *string*

Description The ID of this gRPC server's SSL profile as used by the gNSI Certz service

Context system tls profile name *string* certz ssl-profile-id *string*

Tree ssl-profile-id

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trust-anchor

Description

Enter the trust-anchor context

State relating to the active trust anchor provided via Certz

This is equivalent to the certificate authority bundle, and is the list of certificates used to validate clients in mTLS, and to validate servers in outbound TLS.

Context

system tls profile name *string* certz trust-anchor

Tree

trust-anchor

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *string*

Description

The created on timestamp as provided by the gNSI client at the time of uploading the policy

The maps to the created_on field within a Entity message in the Certz protobuf.

Context

system tls profile name *string* certz trust-anchor created-on *string*

Tree

created-on

String Length

20 to 32

Configurable

False

Platforms

7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description The version string as provided by the gNSI client at the time of uploading the certificate or bundle/s

The maps to the version field within a Entity message in the Certz protobuf.

Context system tls profile name *string* certz trust-anchor version *string*

Tree version

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cipher-list *identityref*

Description List of ciphers to use when negotiating TLS 1.2 with clients

Context system tls profile name *string* cipher-list *identityref*

Tree cipher-list

Default ecdhe-ecdsa-aes256-gcm-sha384

Options

- ecdhe-rsa-aes256-gcm-sha384
- ecdhe-ecdsa-aes256-gcm-sha384
- ecdhe-rsa-aes256-sha384
- ecdhe-ecdsa-aes256-sha384
- ecdhe-rsa-aes256-sha
- ecdhe-ecdsa-aes256-sha
- dhe-dss-aes256-gcm-sha384
- dhe-rsa-aes256-gcm-sha384
- dhe-rsa-aes256-sha256
- dhe-dss-aes256-sha256
- dhe-rsa-aes256-sha
- dhe-dss-aes256-sha
- dhe-rsa-camellia256-sha

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- dhe-dss-camellia256-sha
- aes256-gcm-sha384
- aes256-sha256
- aes256-sha
- camellia256-sha
- psk-aes256-cbc-sha
- ecdhe-rsa-aes128-gcm-sha256
- ecdhe-ecdsa-aes128-gcm-sha256
- ecdhe-rsa-aes128-sha256
- ecdhe-ecdsa-aes128-sha256
- ecdhe-rsa-aes128-sha
- ecdhe-ecdsa-aes128-sha
- dhe-dss-aes128-gcm-sha256
- dhe-rsa-aes128-gcm-sha256
- dhe-rsa-aes128-sha256
- dhe-dss-aes128-sha256
- dhe-rsa-aes128-sha
- dhe-dss-aes128-sha
- dhe-rsa-seed-sha
- dhe-dss-seed-sha
- dhe-rsa-camellia128-sha
- dhe-dss-camellia128-sha
- aes128-gcm-sha256
- aes128-sha256
- aes128-sha
- seed-sha
- camellia128-sha
- psk-aes128-cbc-sha
- ecdhe-rsa-des-cbc3-sha
- ecdhe-ecdsa-des-cbc3-sha
- edh-rsa-des-cbc3-sha
- edh-dss-des-cbc3-sha
- des-cbc3-sha
- idea-cbc-sha
- psk-3des-ede-cbc-sha
- ecdhe-rsa-rc4-sha

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- ecdhe-ecdsa-rc4-sha
- rc4-sha
- psk-rc4-sha

Configurable True

Platforms Supported on all platforms

dynamic *boolean*

Description Defines if the profile was dynamically created by service (for example gNSI Authz/Certz)

Context system tls profile name *string* dynamic *boolean*

Tree dynamic

Configurable False

Platforms Supported on all platforms

expiration *string*

Description Date and time the certificate expires

Context system tls profile name *string* expiration *string*

Tree expiration

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

expired *boolean*

Description Indicates whether the certificate is expired.

The certificate is expired if current time is before valid-after time or current time is after expiration time

Context system tls profile name *string* expired *boolean*

Tree expired

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Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key *string*

Description	Base64 encoded key to use with the certificate This includes the '-----BEGIN PRIVATE KEY-----', and '-----END PRIVATE KEY-----' header and footer. The value is hashed, and only the hashed value is kept.
Context	system tls profile name *string* key *string*
Tree	key
String Length	0 to 10240
Configurable	True
Platforms	Supported on all platforms

relaxed-crl-verification *boolean*

Description	Defines if the CRL verification is done in a relaxed (non-strict) way. If set to true, the CRL verification allows nonexistent and/or expired CRLs in the client certificate chain. If set to false, the CRL verification will fail if any CRL in the client certificate chain is not found or expired.
Context	system tls profile name *string* relaxed-crl-verification *boolean*
Tree	relaxed-crl-verification
Default	false
Configurable	True
Platforms	Supported on all platforms

tls-version *identityref*

Description	List of TLS protocol versions to allow when negotiating with clients When not configured, both TLS 1.2 and TLS 1.3 are allowed.
Context	system tls profile name *string* tls-version *identityref*

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Tree tls-version

Default tls1.2

Options
- tls1.2
  TLS protocol version 1.2
- tls1.3
  TLS protocol version 1.3

Configurable True

Platforms pqc-support-tls-crypt-functions

tls13

Description Enter the tls13 context
TLS 1.3 cryptographic parameters

Context system tls profile name *string* tls13

Tree tls13

Configurable True

Platforms pqc-support-tls-crypt-functions

cipher-list *identityref*

Description List of ciphers to use when negotiating TLS 1.3 with clients
When not configured, tls_aes_128_gcm_sha256, tls_aes_256_gcm_sha384 and tls_chacha20_poly1305_sha256 are used. The tls_chacha20_poly1305_sha256 cipher suite is not available when the system is booted in fips-140 mode as it is not a fips approved algorithm and is then also left out of the default

Context system tls profile name *string* tls13 cipher-list *identityref*

Tree cipher-list

Options
- tls_aes_128_gcm_sha256
- tls_aes_256_gcm_sha384
- tls_chacha20_poly1305_sha256

Configurable True

Platforms pqc-support-tls-crypt-functions

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group-list *identityref*

Description List of groups to use when negotiating TLS 1.3 with clients

When not configured, secp256r1, secp384r1, secp521r1, x25519, x448, brainpoolP256r1tls13, brainpoolP384r1tls13, brainpoolP512r1tls13, ffdhe2048, ffdhe3072, ffdhe4096, ffdhe6144, ffdhe8192, MLKEM512, MLKEM768, MLKEM1024, SecP256r1MLKEM768, X25519MLKEM768 and SecP384r1MLKEM1024 are used. The x25519, x448 and brainpool groups are not available when the system is booted in fips-140 mode as they are not fips approved algorithms and are then also left out of the default

Context system tls profile name *string* tls13 group-list *identityref*

Tree group-list

Options

- secp256r1
- secp384r1
- secp521r1
- x25519
- x448
- brainpoolP256r1tls13
- brainpoolP384r1tls13
- brainpoolP512r1tls13
- ffdhe2048
- ffdhe3072
- ffdhe4096
- ffdhe6144
- ffdhe8192
- MLKEM512
- MLKEM768
- MLKEM1024
- SecP256r1MLKEM768
- X25519MLKEM768
- SecP384r1MLKEM1024

Configurable True

Platforms pqc-support-tls-crypt-functions

signature-list *identityref*

Description List of signature-algorithms to use when negotiating TLS 1.3 with clients

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When not configured, ecdsa_secp256r1_sha256, ecdsa_secp384r1_sha384, ecdsa_secp521r1_sha512, ed25519, ed448, ecdsa_brainpoolP256r1tls13_sha256, ecdsa_brainpoolP384r1tls13_sha384, ecdsa_brainpoolP512r1tls13_sha512, rsa_pss_rsae_sha256, rsa_pss_rsae_sha384, rsa_pss_rsae_sha512, rsa_pss_pss_sha256, rsa_pss_pss_sha384, rsa_pss_pss_sha512, mldsa44, mldsa65 and mldsa87 are used. The ed25519 and ed448 signature algorithms are not available when the system is booted in fips-140 mode as they are not fips approved algorithms and are then also left out of the default

Context system tls profile name *string* tls13 signature-list *identityref*

Tree signature-list

Options

- ecdsa_secp256r1_sha256
- ecdsa_secp384r1_sha384
- ecdsa_secp521r1_sha512
- ed25519
- ed448
- ecdsa_brainpoolP256r1tls13_sha256
- ecdsa_brainpoolP384r1tls13_sha384
- ecdsa_brainpoolP512r1tls13_sha512
- rsa_pss_rsae_sha256
- rsa_pss_rsae_sha384
- rsa_pss_rsae_sha512
- rsa_pss_pss_sha256
- rsa_pss_pss_sha384
- rsa_pss_pss_sha512
- mldsa44
- mldsa65
- mldsa87

Configurable True

Platforms pqc-support-tls-crypt-functions

trust-anchor *string*

Description Base64 encoded certificate to use as a trust anchor

This includes the '-----BEGIN CERTIFICATE-----' and '-----END CERTIFICATE-----' header and footer. Can contain multiple trust anchors separated by '-----BEGIN CERTIFICATE-----' and '-----END CERTIFICATE-----' headers and footers.

Context system tls profile name *string* trust-anchor *string*

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Tree	trust-anchor
String Length	0 to 5242880
Configurable	True
Platforms	Supported on all platforms

use-tpm-devid *keyword*

Description	Defines if the TLS profile key and certificate uses the TPM idevid or oidevid
Context	system tls profile name *string* use-tpm-devid *keyword*
Tree	use-tpm-devid
Options	• idevid The TPM iDevID key and certificate is used • oidevid The TPM iDevID key and oIDevID certificate is used
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

valid-after *string*

Description	Date and time the certificate becomes valid
Context	system tls profile name *string* valid-after *string*
Tree	valid-after
String Length	20 to 32
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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trace-options *keyword*

Description Management server trace options

Context system trace-options *keyword*

Tree trace-options

Options
- request
- response
- common

Configurable True

Platforms Supported on all platforms

transceiver

Description Enter the transceiver context

Actions related to transceivers

Context system transceiver

Tree transceiver

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

firmware

Description Enter the firmware context

Actions related to transceiver firmware

Context system transceiver firmware

Tree firmware

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

utilization

Description Enter the utilization context

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Configuration and state for each system resource

Context system utilization

Tree utilization

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

acl

Description Enter the acl context

Context system utilization acl

Tree acl

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description List of Acl system-wide resources

Context system utilization acl resource name *identityref*

Tree resource

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *identityref*

Description The name of the resource

Context system utilization acl resource name *identityref*

Options

- output-ipv4-filter-instances

  This resource is used every time an IPv4 filter instance is created and applied to egress traffic on the forwarding complex. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every subinterface using the IPv4 filter as an egress filter.

- output-ipv4-filter-instances-routed

  This resource is used every time an IPv4 filter instance is created and applied to egress traffic on routed subinterfaces. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every routed subinterface using the IPv4 filter.

- output-ipv4-filter-instances-bridged

  This resource is used every time an IPv4 filter instance is created and applied to egress traffic on bridged subinterfaces. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every bridged subinterface using the IPv4 filter.

- output-ipv6-filter-instances

  This resource is used every time an IPv6 filter instance is created and applied to egress traffic on the forwarding complex. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every subinterface using the IPv6 filter as an egress filter.

- output-ipv6-filter-instances-routed

  This resource is used every time an IPv6 filter instance is created and applied to egress traffic on routed subinterfaces. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every routed subinterface using the IPv6 filter.

- output-ipv6-filter-instances-bridged

  This resource is used every time an IPv6 filter instance is created and applied to egress traffic on bridged subinterfaces. Only one instance is used if the subinterface-specific property of the filter is set to input-only; otherwise one instance is used for every bridged subinterface using the IPv6 filter.

- output-mac-filter-instances

  This resource is used every time an MAC filter instance is created and applied to egress traffic on the forwarding complex. Only one instance is used if the subinterface-specific property of the filter is set to input-only;

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otherwise one instance is used for every subinterface using the MAC filter as an egress filter.

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-entries *number*

Description The number of entries that are currently free

Context system utilization acl resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-clear *number*

Description Sets the threshold that triggers the generation of a NOTICE log and the setting of 'used-upper-threshold-exceeded' to 'false' whenever the utilization of the resource reaches this value in a falling direction

Context system utilization acl resource name *identityref* upper-threshold-clear *number*

Tree upper-threshold-clear

Range 0 to 100

Default 70

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-set *number*

Description	Sets the threshold that triggers the generation of a WARNING log and the setting of 'used-upper-threshold-exceeded' to 'true' whenever the utilization of the resource reaches this value in a rising direction
Context	system utilization acl resource name *identityref* upper-threshold-set *number*
Tree	upper-threshold-set
Range	0 to 100
Default	90
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description	The number of entries that are currently used
Context	system utilization acl resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-high-watermark *number*

Description	A watermark of highest number of entries used for this resource
Context	system utilization acl resource name *identityref* used-high-watermark *number*
Tree	used-high-watermark

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-last-high-watermark-time *string*

Description	The timestamp when the high-watermark was last updated
Context	system utilization acl resource name *identityref* used-last-high-watermark-time *string*
Tree	used-last-high-watermark-time
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description	The percentage of the resource that is currently used
Context	system utilization acl resource name *identityref* used-percent *number*
Tree	used-percent
Range	0 to 100
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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used-upper-threshold-exceeded *boolean*

Description	This value is set to true when the used percentage value (used / (used + free) * 100) has reached (in a rising direction) the configured upper-threshold-set for this resource and false when the used percentage value has reached (in a falling direction) the configured upper-threshold-clear for this resource
Context	system utilization acl resource name *identityref* used-upper-threshold-exceeded *boolean*
Tree	used-upper-threshold-exceeded
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

qos

Description	Enter the qos context
Context	system utilization qos
Tree	qos
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description	List of qos system-wide resources
Context	system utilization qos resource name *identityref*
Tree	resource
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description	The name of the resource
Context	system utilization qos resource name *identityref*

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Options

- lag-bundle

  LAG bundle IDs pool resources

  Required by subinterfaces on LAGs when per-subinterface queueing QoS is configured
- lag-system-port

  LAG system-port pool resources

  Required per LAG member-port and subinterface when per-subinterface queueing QoS is configured on a LAG
- voq-set

  VOQ IDs resources

  Required by subinterfaces on normal ports and LAGs when per-subinterface queueing QoS is configured
- voq-set-statistics

  VOQ stat IDs resources

  Required by interface and subinterface when voq statistics are enabled for normal ports and LAG

Configurable True

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

free-entries *number*

Description The number of entries that are currently free

Context system utilization qos resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-clear *number*

Description Sets the threshold that triggers the generation of a NOTICE log and the setting of 'used-upper-threshold-exceeded' to 'false' whenever the utilization of the resource reaches this value in a falling direction

Context system utilization qos resource name *identityref* upper-threshold-clear *number*

Tree upper-threshold-clear

Range 0 to 100

Default 70

Configurable True

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Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-set *number*

Description	Sets the threshold that triggers the generation of a WARNING log and the setting of 'used-upper-threshold-exceeded' to 'true' whenever the utilization of the resource reaches this value in a rising direction
Context	system utilization qos resource name *identityref* upper-threshold-set *number*
Tree	upper-threshold-set
Range	0 to 100
Default	90
Configurable	True
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description	The number of entries that are currently used
Context	system utilization qos resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

used-high-watermark *number*

Description	A watermark of highest number of entries used for this resource
Context	system utilization qos resource name *identityref* used-high-watermark *number*
Tree	used-high-watermark
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

used-last-high-watermark-time *string*

Description	The timestamp when the high-watermark was last updated
Context	system utilization qos resource name *identityref* used-last-high-watermark-time *string*
Tree	used-last-high-watermark-time

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String Length	20 to 32
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description	The percentage of the resource that is currently used
Context	system utilization qos resource name *identityref* used-percent *number*
Tree	used-percent
Range	0 to 100
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

used-upper-threshold-exceeded *boolean*

Description	This value is set to true when the used percentage value (used / (used + free) * 100) has reached (in a rising direction) the configured upper-threshold-set for this resource and false when the used percentage value has reached (in a falling direction) the configured upper-threshold-clear for this resource
Context	system utilization qos resource name *identityref* used-upper-threshold-exceeded *boolean*
Tree	used-upper-threshold-exceeded
Configurable	False
Platforms	7250 IXR-X4, 7250 IXR-X4-OSFP

resource name *identityref*

Description	List of system-wide resources
Context	system utilization resource name *identityref*
Tree	resource
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *identityref*

Description The name of the resource

Context system utilization resource name *identityref*

Options

- mpls-next-hops

  MPLS next hop label forwarding entry resources

  Each MPLS next-hop that pushes an outgoing label stack uses one of these resources
- tunnels

  Tunnel resources

  Each IP-in-IP, GRE or MPLS tunnel uses one of these resources
- ip-in-ip-tunnels

  IP-in-IP tunnel resources

  Each originating IP-in-IP tunnel uses one of these resources
- ip-gre-tunnels

  IP-over-GRE tunnel resources

  Each originating IP-over-GRE tunnel uses one of these resources
- ip-udp-tunnels

  UDP tunnel resources

  Each originating UDP tunnel uses one of these resources
- ip-gre-udp-tunnels

  GRE and UDP tunnel resources

  Each originating GRE or UDP tunnel uses one of these resources
- vp-lag-groups

  VP LAG group resources

  VP LAGs are needed by a NHG when it supports EVPN multi-homing
- protect-groups

  Protect group IDs

  Each primary next-hop that needs fast failover to a backup next-hop needs a protect-group ID
- mcast-rpf-indices

  P2MP RPF Index
- vxlan-tunnels

  VXLAN tunnel resources

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Each originating VXLAN tunnel uses one of these resources

- ingress-labeled-tunnel-statistics

  Ingress labeled tunnel statistics resources

  Each ingress tunnel (e.g. segment-list) so as iLM forwarding entries uses one of these resources

- egress-labeled-tunnel-statistics

  Egress labeled tunnel statistics resources

  Each engress tunnel (e.g. segment-list) so as NHLFE forwarding entries uses one of these resources

- multicast-ppmc-indices

  PPMC indices for multicast users

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

free-entries *number*

Description The number of entries that are currently free

Context system utilization resource name *identityref* free-entries *number*

Tree free-entries

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-clear *number*

Description Sets the threshold that triggers the generation of a NOTICE log and the setting of 'used-upper-threshold-exceeded' to 'false' whenever the utilization of the resource reaches this value in a falling direction

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Context	system utilization resource name *identityref* upper-threshold-clear *number*
Tree	upper-threshold-clear
Range	0 to 100
Default	70
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

upper-threshold-set *number*

Description	Sets the threshold that triggers the generation of a WARNING log and the setting of 'used-upper-threshold-exceeded' to 'true' whenever the utilization of the resource reaches this value in a rising direction
Context	system utilization resource name *identityref* upper-threshold-set *number*
Tree	upper-threshold-set
Range	0 to 100
Default	90
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-entries *number*

Description	The number of entries that are currently used
Context	system utilization resource name *identityref* used-entries *number*
Tree	used-entries
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-high-watermark *number*

Description A watermark of highest number of entries used for this resource

Context system utilization resource name *identityref* used-high-watermark *number*

Tree used-high-watermark

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-last-high-watermark-time *string*

Description The timestamp when the high-watermark was last updated

Context system utilization resource name *identityref* used-last-high-watermark-time *string*

Tree used-last-high-watermark-time

String Length 20 to 32

Configurable False

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-percent *number*

Description The percentage of the resource that is currently used

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Context	system utilization resource name *identityref* used-percent *number*
Tree	used-percent
Range	0 to 100
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-upper-threshold-exceeded *boolean*

Description	This value is set to true when the used percentage value (used / (used + free) * 100) has reached (in a rising direction) the configured upper-threshold-set for this resource and false when the used percentage value has reached (in a falling direction) the configured upper-threshold-clear for this resource
Context	system utilization resource name *identityref* used-upper-threshold-exceeded *boolean*
Tree	used-upper-threshold-exceeded
Configurable	False
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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12 tools acl

```
acl
+  acl-filter name string type keyword
   +  entry sequence-id number
      +  statistics
         +  clear
   +  statistics
      +  clear
+  interface interface-id string
   +  input
      +  acl-filter name string type keyword
         +  entry sequence-id number
            +  statistics
               +  clear
         +  statistics
            +  clear
      +  statistics
         +  clear
   +  output
      +  acl-filter name string type keyword
         +  entry sequence-id number
            +  statistics
               +  clear
         +  statistics
            +  clear
      +  statistics
         +  clear
+  policers
   +  policer name string
      +  statistics
         +  clear
   +  system-cpu-policer name string
      +  statistics
         +  clear
```


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12.1 acl Descriptions

acl

Description	Enter the acl context Top level enclosing container for ACL operational tools
Context	acl
Tree	acl
Configurable	True
Platforms	Supported on all platforms

acl-filter name *string* type *keyword*

Description	List MAC, IPv4, IPv6 ACL filter policies
Context	acl acl-filter name *string* type *keyword*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Referencence to the ACL filter policy name
Context	acl acl-filter name *string* type *keyword*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	Defines the type of ACL filter: ipv4: IPv4 ACL filter ipv6: IPv6 ACL filter mac: MAC ACL filter
Context	acl acl-filter name *string* type *keyword*
Options	• ipv4 • ipv6 • mac

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Configurable	True
Platforms	Supported on all platforms

entry sequence-id *number*

Description	List of filter rules.
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	Supported on all platforms

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number*
Range	0 to 65535
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all aggregate and per-interface statistics associated with this particular entry to zero
Context	acl acl-filter name *string* type *keyword* entry sequence-id *number* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

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statistics

Description	Enter the statistics context
Context	acl acl-filter name *string* type *keyword* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all statistics of all entries of the filter to zero
Context	acl acl-filter name *string* type *keyword* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

interface interface-id *string*

Description	List of interfaces and subinterfaces referencing ACL filters
Context	acl interface interface-id *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

interface-id *string*

Description	Identifier for the interface or subinterface
Context	acl interface interface-id *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

input

Description	Enter the input context
Context	acl interface interface-id *string* input

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Tree	input
Configurable	True
Platforms	Supported on all platforms

acl-filter name *string* type *keyword*

Description	List MAC, IPv4, IPv6 ACL filter policies
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Referencence to the ACL filter policy name
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	Defines the type of ACL filter: ipv4: IPv4 ACL filter ipv6: IPv6 ACL filter mac: MAC ACL filter
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword*
Options	• ipv4 • ipv6 • mac
Configurable	True
Platforms	Supported on all platforms

entry sequence-id *number*

Description	List of filter rules.
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* entry sequence-id *number*

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Tree	entry
Configurable	True
Platforms	Supported on all platforms

sequence-id *number*

Description	A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* entry sequence-id *number*
Range	0 to 65535
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* entry sequence-id *number* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all aggregate and per-interface statistics associated with this particular entry to zero
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* entry sequence-id *number* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* statistics

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Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all statistics of all entries of the filter to zero
Context	acl interface interface-id *string* input acl-filter name *string* type *keyword* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl interface interface-id *string* input statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	acl interface interface-id *string* input statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

output

Description	Enter the output context
Context	acl interface interface-id *string* output
Tree	output
Configurable	True
Platforms	Supported on all platforms

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acl-filter name *string* type *keyword*

Description	List MAC, IPv4, IPv6 ACL filter policies
Context	acl interface interface-id *string* output acl-filter name *string* type *keyword*
Tree	acl-filter
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Referencence to the ACL filter policy name
Context	acl interface interface-id *string* output acl-filter name *string* type *keyword*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	Defines the type of ACL filter: ipv4: IPv4 ACL filter ipv6: IPv6 ACL filter mac: MAC ACL filter
Context	acl interface interface-id *string* output acl-filter name *string* type *keyword*
Options	• ipv4 • ipv6 • mac
Configurable	True
Platforms	Supported on all platforms

entry sequence-id *number*

Description	List of filter rules.
Context	acl interface interface-id *string* output acl-filter name *string* type *keyword* entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	Supported on all platforms

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sequence-id *number*

Description A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries

Context acl interface interface-id *string* output acl-filter name *string* type *keyword* entry sequence-id *number*

Range 0 to 65535

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context acl interface interface-id *string* output acl-filter name *string* type *keyword* entry sequence-id *number* statistics

Tree statistics

Configurable True

Platforms Supported on all platforms

clear

Description Reset all aggregate and per-interface statistics associated with this particular entry to zero

Context acl interface interface-id *string* output acl-filter name *string* type *keyword* entry sequence-id *number* statistics clear

Tree clear

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context acl interface interface-id *string* output acl-filter name *string* type *keyword* statistics

Tree statistics

Configurable True

Platforms Supported on all platforms

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clear

Description	Reset all statistics of all entries of the filter to zero
Context	acl interface interface-id *string* output acl-filter name *string* type *keyword* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl interface interface-id *string* output statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	acl interface interface-id *string* output statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

policers

Description	Enter the policers context List of policers used by ACL entries
Context	acl policers
Tree	policers
Configurable	True
Platforms	Supported on all platforms

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policer name *string*

Description	List of hardware policers
Context	acl policers policer name *string*
Tree	policer
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the hardware policer
Context	acl policers policer name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl policers policer name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all statistics associated with this particular policer to zero
Context	acl policers policer name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

system-cpu-policer name *string*

Description	List of system CPU policers
Context	acl policers system-cpu-policer name *string*

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Tree	system-cpu-policer
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the system cpu policer
Context	acl policers system-cpu-policer name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	acl policers system-cpu-policer name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all statistics associated with this particular policer to zero
Context	acl policers system-cpu-policer name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

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13 tools bfd

```
bfd
+  micro-bfd-sessions
   +  lag-interface name string
      +  member-interface name string
         +  clear
   +  statistics
      +  lag-interface name string
         +  member-interface name string
            +  clear
+  peer local-discriminator number
   +  clear
+  statistics
   +  peer local-discriminator number
      +  clear
```


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13.1 bfd Descriptions

bfd

Description Enter the bfd context

Top-level grouping for bfd operational commands

Context bfd

Tree bfd

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

micro-bfd-sessions

Description Enter the micro-bfd-sessions context

Context bfd micro-bfd-sessions

Tree micro-bfd-sessions

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-interface name *string*

Description Lag interface against which the clear command is to be executed

Context bfd micro-bfd-sessions lag-interface name *string*

Tree lag-interface

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Reference ID for associated lag interface Example: lag1 (Reference Interface lag1).
Context	bfd micro-bfd-sessions lag-interface name *string*
String Length	3 to 22
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-interface name *string*

Description	List of member-interfaces to be cleared
Context	bfd micro-bfd-sessions lag-interface name *string* member-interface name *string*
Tree	member-interface
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description Reference ID for associated interface Example: ethernet-2/1 (Reference Interface ethernet-2/1).

Context bfd micro-bfd-sessions lag-interface name *string* member-interface name *string*

String Length 3 to 22

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the associated micro-BFD sessions

Clearing a micro-BFD sessions causes the associated sessions to transition to a Down state

Context bfd micro-bfd-sessions lag-interface name *string* member-interface name *string* clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context bfd micro-bfd-sessions statistics

Tree statistics

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lag-interface name *string*

Description	Lag interface against which the clear command is to be executed
Context	bfd micro-bfd-sessions statistics lag-interface name *string*
Tree	lag-interface
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Reference ID for associated lag interface Example: lag1 (Reference Interface lag1).
Context	bfd micro-bfd-sessions statistics lag-interface name *string*
String Length	3 to 22
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-interface name *string*

Description	List of member-interfaces to be cleared

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Context bfd micro-bfd-sessions statistics lag-interface name *string* member-interface name *string*

Tree member-interface

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Reference ID for associated interface Example: ethernet-2/1 (Reference Interface ethernet-2/1).

Context bfd micro-bfd-sessions statistics lag-interface name *string* member-interface name *string*

String Length 3 to 22

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the BFD statistics associated with the micro-BFD sessions

Context bfd micro-bfd-sessions statistics lag-interface name *string* member-interface name *string* clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer local-discriminator *number*

Description	The list of local-discriminators associated with BFD
Context	bfd peer local-discriminator *number*
Tree	peer
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	BFD session local discriminator
Context	bfd peer local-discriminator *number*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear the associated BFD sessions Clearing a BFD sessions causes the associated BFD sessions ot transition to a Down state
Context	bfd peer local-discriminator *number* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220

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IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	bfd statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer local-discriminator *number*

Description	The list of local-discriminators associated with BFD
Context	bfd statistics peer local-discriminator *number*
Tree	peer
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-discriminator *number*

Description	BFD session local discriminator
Context	bfd statistics peer local-discriminator *number*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220

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IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the BFD statistics associated with the BFD sessions

Context bfd statistics peer local-discriminator *number* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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14 tools interface

```
interface name string
+  dynamic-subinterfaces
   +  retention-timer
      +  active-vlan-id active-vlan-id (number | keyword)
         +  clear
+  ethernet
   +  forward-error-correction
      +  statistics
         +  host-if-fec-router
            +  clear
   +  statistics
      +  clear
         +  include-members
+  packet-link-qualification
   +  cancel
      +  id string
   +  start
      +  id string
      +  qualification-profile string
+  resource
   +  retry
+  statistics
   +  clear
      +  include-members
+  subinterface index number
   +  bridge-table
      +  mac-duplication
         +  delete-all-macs
         +  duplicate-entries
            +  mac address string
               +  delete-mac
      +  mac-learning
         +  delete-all-macs
         +  learnt-entries
            +  mac address string
               +  delete-mac
      +  stp
         +  bpdu-guard-error
            +  clear
         +  statistics
            +  clear
   +  ipv4
      +  address ip-prefix string
         +  vrrp-group virtual-router-id number
            +  statistics
               +  clear
      +  arp
         +  delete-dynamic
         +  neighbor ipv4-address string
            +  delete-dynamic
         +  virtual-ipv4-discovery
            +  address ipv4-address string
               +  statistics
                  +  clear
            +  statistics
               +  clear
```


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```
      +  dhcp-relay
         +  statistics
            +  clear
   +  ipv6
      +  address ip-prefix string
      +  vrrp-group virtual-router-id number
         +  statistics
            +  clear
      +  dhcp-relay
         +  statistics
            +  clear
      +  neighbor-discovery
         +  delete-dynamic
         +  neighbor ipv6-address string
            +  delete-dynamic
         +  virtual-ipv6-discovery
            +  address ipv6-address string
               +  statistics
                  +  clear
            +  statistics
               +  clear
   +  statistics
      +  clear
+  transceiver
   +  reset
   +  simulate-removal
      +  disable
      +  enable
```


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14.1 interface Descriptions

interface name *string*

Description	The list of named interfaces on the device.
Context	interface name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	References the configured name of the interface
Context	interface name *string*
Configurable	True
Platforms	Supported on all platforms

dynamic-subinterfaces

Description	Tools for dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces
Tree	dynamic-subinterfaces
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retention-timer

Description	Enter the retention-timer context Retention timer for dynamic subinterfaces
Context	interface name *string* dynamic-subinterfaces retention-timer
Tree	retention-timer
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-vlan-id active-vlan-id *(number | keyword)*

Description List of active vlan-ids on the interface configured for dynamic subinterfaces

Context interface name *string* dynamic-subinterfaces retention-timer active-vlan-id active-vlan-id *(number | keyword)*

Tree active-vlan-id

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-vlan-id *(number | keyword)*

Description The active vlan-id(s) on the interface configured for dynamic subinterfaces

Context interface name *string* dynamic-subinterfaces retention-timer active-vlan-id active-vlan-id *(number | keyword)*

Range 1 to 4094

Options

- untagged

  Untagged traffic

- all

  All VLANs on vlan-range configured for dynamic subinterfaces

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the retention-timer for the VLAN scope selected (a specific VLAN, untagged traffic, or all VLANs)

Normally, a VLAN remains in the active-vlans list until its retention timer expires after traffic ceases. This tools command clears that timer, causing any VLAN currently marked as active, due to frames observed on the

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interface, to be removed from active-vlans immediately. This command does not remove a VLAN from the active-vlans list if it was created as a result of the existence of an Ethernet Segment destination.

Context interface name *string* dynamic-subinterfaces retention-timer active-vlan-id active-vlan-id *(number | keyword)* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethernet

Description Enter the ethernet context

Context interface name *string* ethernet

Tree ethernet

Configurable True

Platforms Supported on all platforms

forward-error-correction

Description Enter the forward-error-correction context

Context interface name *string* ethernet forward-error-correction

Tree forward-error-correction

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* ethernet forward-error-correction statistics

Tree statistics

Configurable True

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

host-if-fec-router

Description	Enter the host-if-fec-router context
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router
Tree	host-if-fec-router
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear forward error correction statistics
Context	interface name *string* ethernet forward-error-correction statistics host-if-fec-router clear
Tree	clear
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	interface name *string* ethernet statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

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clear

Description	Clear interface ethernet statistics
Context	interface name *string* ethernet statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

include-members

Description	Causes the member link ethernet statistics to also be cleared
Context	interface name *string* ethernet statistics clear include-members
Tree	include-members
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-link-qualification

Description	Enter the packet-link-qualification context
Context	interface name *string* packet-link-qualification
Tree	packet-link-qualification
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cancel

Description	Enter the cancel context Cancel the packet link qualification and delete the results

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Context	interface name *string* packet-link-qualification cancel
Tree	cancel
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description	Packet link qualification test ID
Context	interface name *string* packet-link-qualification cancel id *string*
Tree	id
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start

Description	Enter the start context Start packet link qualification
Context	interface name *string* packet-link-qualification start
Tree	start
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *string*

Description	Packet link qualification test ID
Context	interface name *string* packet-link-qualification start id *string*
Tree	id
String Length	1 to 255

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

qualification-profile *string*

Description	Packet link qualification profile name
Context	interface name *string* packet-link-qualification start qualification-profile *string*
Tree	qualification-profile
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resource

Description	Enable the resource context
Context	interface name *string* resource
Tree	resource
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

retry

Description	Causes the specified lag to be reevaluate for missing system resources
Context	interface name *string* resource retry
Tree	retry
Configurable	True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	interface name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear interface statistics
Context	interface name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

include-members

Description	Causes the member link statistics to also be cleared
Context	interface name *string* statistics clear include-members
Tree	include-members
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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subinterface index *number*

Description	The list of subinterfaces (logical interfaces) associated with a physical interface
Context	interface name *string* subinterface index *number*
Tree	subinterface
Configurable	True
Platforms	Supported on all platforms

index *number*

Description	The index of the subinterface, or logical interface number
Context	interface name *string* subinterface index *number*
Configurable	True
Platforms	Supported on all platforms

bridge-table

Description	Enter the bridge-table context
Context	interface name *string* subinterface index *number* bridge-table
Tree	bridge-table
Configurable	True
Platforms	Supported on all platforms

mac-duplication

Description	Enable the mac-duplication context
Context	interface name *string* subinterface index *number* bridge-table mac-duplication
Tree	mac-duplication
Configurable	True
Platforms	Supported on all platforms

delete-all-macs

Description	Delete all learnt mac entries.

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Context	interface name *string* subinterface index *number* bridge-table mac-duplication delete-all-macs
Tree	delete-all-macs
Configurable	True
Platforms	Supported on all platforms

duplicate-entries

Description	Enter the duplicate-entries context
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries
Tree	duplicate-entries
Configurable	True
Platforms	Supported on all platforms

mac address *string*

Description	macs learnt on the bridging instance
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string*
Tree	mac
Configurable	True
Platforms	Supported on all platforms

address *string*

Description	Enter the address context
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string*
Configurable	True
Platforms	Supported on all platforms

delete-mac

Description	delete the duplicate mac address.
Context	interface name *string* subinterface index *number* bridge-table mac-duplication duplicate-entries mac address *string* delete-mac

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Tree	delete-mac
Configurable	True
Platforms	Supported on all platforms

mac-learning

Description	Enable the mac-learning context
Context	interface name *string* subinterface index *number* bridge-table mac-learning
Tree	mac-learning
Configurable	True
Platforms	Supported on all platforms

delete-all-macs

Description	Delete all learnt mac entries.
Context	interface name *string* subinterface index *number* bridge-table mac-learning delete-all-macs
Tree	delete-all-macs
Configurable	True
Platforms	Supported on all platforms

learnt-entries

Description	Enter the learnt-entries context
Context	interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries
Tree	learnt-entries
Configurable	True
Platforms	Supported on all platforms

mac address *string*

Description	macs learnt on the bridging instance
Context	interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string*
Tree	mac
Configurable	True

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Platforms	Supported on all platforms

address *string*

Description	Enter the address context
Context	interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string*
Configurable	True
Platforms	Supported on all platforms

delete-mac

Description	delete the learnt mac address.
Context	interface name *string* subinterface index *number* bridge-table mac-learning learnt-entries mac address *string* delete-mac
Tree	delete-mac
Configurable	True
Platforms	Supported on all platforms

stp

Description	Enable the stp context
Context	interface name *string* subinterface index *number* bridge-table stp
Tree	stp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-error

Description	Enter the bpdu-guard-error context
Context	interface name *string* subinterface index *number* bridge-table stp bpdu-guard-error
Tree	bpdu-guard-error
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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clear

Description	Clear Bpdu Guard Error
Context	interface name *string* subinterface index *number* bridge-table stp bpdu-guard-error clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context
Context	interface name *string* subinterface index *number* bridge-table stp statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear all Stp statistics
Context	interface name *string* subinterface index *number* bridge-table stp statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

ipv4

Description	Enter the ipv4 context
Context	interface name *string* subinterface index *number* ipv4
Tree	ipv4
Configurable	True
Platforms	Supported on all platforms

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address ip-prefix *string*

Description	Enter the address list instance
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string*
Tree	address
Configurable	True
Platforms	Supported on all platforms

ip-prefix *string*

Description	Enter the ip-prefix context
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string*
Configurable	True
Platforms	Supported on all platforms

vrrp-group virtual-router-id *number*

Description	VRRP Group Specific Configuration under IPv4 context
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp-group virtual-router-id *number*
Tree	vrrp-group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

virtual-router-id *number*

Description	VRRP Group Index
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp-group virtual-router-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description	Enter the statistics context
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp-group virtual-router-id *number* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Enter the clear context
Context	interface name *string* subinterface index *number* ipv4 address ip-prefix *string* vrrp-group virtual-router-id *number* statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

arp

Description	Enable the arp context
Context	interface name *string* subinterface index *number* ipv4 arp
Tree	arp
Configurable	True
Platforms	Supported on all platforms

delete-dynamic

Description	Delete all dynamic ARP entries
Context	interface name *string* subinterface index *number* ipv4 arp delete-dynamic
Tree	delete-dynamic
Configurable	True
Platforms	Supported on all platforms

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neighbor ipv4-address *string*

Description	Enter the neighbor list instance
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string*
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

ipv4-address *string*

Description	IPv4 address resolved by the ARP entry
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string*
Configurable	True
Platforms	Supported on all platforms

delete-dynamic

Description	Delete one specific dynamic ARP entry
Context	interface name *string* subinterface index *number* ipv4 arp neighbor ipv4-address *string* delete-dynamic
Tree	delete-dynamic
Configurable	True
Platforms	Supported on all platforms

virtual-ipv4-discovery

Description	Enter the virtual-ipv4-discovery context
Context	interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery
Tree	virtual-ipv4-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address ipv4-address *string*

Description The list of Virtual IP addresses

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string*

Tree address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description The virtual IPv4 address.

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* statistics

Tree statistics

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears the statistics for the Virtual IP addresses

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery address ipv4-address *string* statistics clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery statistics

Tree statistics

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clears the global statistics for all the Virtual IP addresses

Context interface name *string* subinterface index *number* ipv4 arp virtual-ipv4-discovery statistics clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcp-relay

Description Enable the dhcp-relay context

Context interface name *string* subinterface index *number* ipv4 dhcp-relay

Tree dhcp-relay

Configurable True

Platforms Supported on all platforms

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv4 dhcp-relay statistics

Tree statistics

Configurable True

Platforms Supported on all platforms

clear

Description Enter the clear context

Context interface name *string* subinterface index *number* ipv4 dhcp-relay statistics clear

Tree clear

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Configurable	True
Platforms	Supported on all platforms

ipv6

Description	Enter the ipv6 context
Context	interface name *string* subinterface index *number* ipv6
Tree	ipv6
Configurable	True
Platforms	Supported on all platforms

address ip-prefix *string*

Description	Enter the address list instance
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string*
Tree	address
Configurable	True
Platforms	Supported on all platforms

ip-prefix *string*

Description	Enter the ip-prefix context
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string*
Configurable	True
Platforms	Supported on all platforms

vrrp-group virtual-router-id *number*

Description	VRRP Group Specific Configuration under IPv4 context
Context	interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp-group virtual-router-id *number*
Tree	vrrp-group
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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virtual-router-id *number*

Description VRRP Group Index

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp-group virtual-router-id *number*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp-group virtual-router-id *number* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Enter the clear context

Context interface name *string* subinterface index *number* ipv6 address ip-prefix *string* vrrp-group virtual-router-id *number* statistics clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dhcp-relay

Description Enable the dhcp-relay context

Context interface name *string* subinterface index *number* ipv6 dhcp-relay

Tree dhcp-relay

Configurable True

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Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	interface name *string* subinterface index *number* ipv6 dhcp-relay statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

neighbor-discovery

Description	Enable the neighbor-discovery context
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery
Tree	neighbor-discovery
Configurable	True
Platforms	Supported on all platforms

delete-dynamic

Description	Delete all dynamic neighbor cache entries
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery delete-dynamic
Tree	delete-dynamic
Configurable	True
Platforms	Supported on all platforms

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neighbor ipv6-address *string*

Description	Enter the neighbor list instance
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string*
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

ipv6-address *string*

Description	IPv6 address resolved by the ND cache entry
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string*
Configurable	True
Platforms	Supported on all platforms

delete-dynamic

Description	Delete one specific dynamic neighbor cache entry
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery neighbor ipv6-address *string* delete-dynamic
Tree	delete-dynamic
Configurable	True
Platforms	Supported on all platforms

virtual-ipv6-discovery

Description	Enter the virtual-ipv6-discovery context
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery
Tree	virtual-ipv6-discovery
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address ipv6-address *string*

Description The list of Virtual IP addresses

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string*

Tree address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description The virtual IPv6 address.

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* statistics

Tree statistics

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clears the statistics for the Virtual IP addresses
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery address ipv6-address *string* statistics clear
Tree	clear
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery statistics
Tree	statistics
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description	Clears the global statistics for all the Virtual IP addresses
Context	interface name *string* subinterface index *number* ipv6 neighbor-discovery virtual-ipv6-discovery statistics clear
Tree	clear
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	interface name *string* subinterface index *number* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	interface name *string* subinterface index *number* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

transceiver

Description	Tools related to individual transceivers
Context	interface name *string* transceiver
Tree	transceiver
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description	Reset the transceiver
Context	interface name *string* transceiver reset
Tree	reset
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

simulate-removal

Description	Simulate the transceiver being physically removed When enabled, the system behaves as if the transceiver were not present in the cage. Useful for fault-injection and testing.
Context	interface name *string* transceiver simulate-removal
Tree	simulate-removal
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disable

Description	Deactivate simulated removal of the transceiver
Context	interface name *string* transceiver simulate-removal disable
Tree	disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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enable

Description	Activate simulated removal of the transceiver
Context	interface name *string* transceiver simulate-removal enable
Tree	enable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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15 tools network-instance

```
network-instance name string
+  bridge-table
   +  mac-duplication
      +  delete-macs-type keyword
      +  duplicate-entries
         +  mac address string
            +  delete-mac
   +  mac-learning
      +  delete-all-macs
      +  learnt-entries
         +  mac address string
            +  delete-mac
   +  proxy-arp
      +  duplicate
         +  delete-all
         +  entry address string
            +  delete-ip
      +  dynamic
         +  delete-all
         +  entry address string
            +  delete-ip
   +  proxy-nd
      +  duplicate
         +  delete-all
         +  entry address string
            +  delete-ip
      +  dynamic
         +  delete-all
         +  entry address string
            +  delete-ip
+  connection-point name string
   +  bridge-table
      +  mac-duplication
         +  delete-all-macs
         +  duplicate-entries
            +  mac address string
               +  delete-mac
      +  mac-learning
         +  delete-all-macs
         +  learnt-entries
            +  mac address string
               +  delete-mac
+  group-based-policy
   +  acl
      +  entry sequence-id number
         +  statistics
            +  clear
      +  statistics
         +  clear
+  icmp
   +  statistics
      +  clear
+  icmp6
   +  statistics
      +  clear
+  protocols
```


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```
+  bgp
   +  bmp
      +  reset
      +  station name string
         +  debug
            +  events
            +  messages
         +  reset
   +  clear-malformed-updates
   +  group group-name string
      +  clear-malformed-updates
      +  reset-peer
         +  peer-as number
      +  route-flap-damping
         +  clear-history
      +  soft-clear
         +  peer-as number
         +  route-refresh identityref
   +  neighbor peer-address (ipv4-address-with-zone | ipv6-address-with-zone)
      +  clear-malformed-updates
      +  reset-peer
      +  route-flap-damping
         +  clear-history
      +  soft-clear
         +  route-refresh identityref
   +  origin-validation
      +  match (ipv4-prefix | ipv6-prefix)
      +  origin-as number
   +  reset-peer
      +  peer-as number
   +  route-flap-damping
      +  clear-history
   +  rpki
      +  session name string
         +  clear
         +  statistics
            +  clear
   +  soft-clear
      +  peer-as number
      +  route-refresh identityref
+  igmp
   +  interface interface-name string
      +  membership-groups
         +  clear
         +  group group string
            +  clear
            +  source source string
               +  clear
      +  statistics
         +  clear
      +  version
         +  clear
   +  membership-groups
      +  clear
      +  group group string
         +  clear
         +  source source string
            +  clear
   +  statistics
      +  clear
   +  version
      +  clear
+  igmp-snooping
   +  interface interface-name string
```


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```
      + membership-groups
         + clear
         + group group string
            + clear
            + source source string
               + clear
      + statistics
         + clear
   + membership-groups
      + clear
      + group group string
         + clear
         + source source string
            + clear
   + querier
      + clear
   + statistics
      + clear
+ isis
   + instance name string
      + interface interface-name string
         + adjacencies
            + clear
      + ldp-synchronization
         + exit
      + link-state-database
         + clear
      + multi-part-tlv-statistics
         + clear
      + overload
         + clear
      + segment-routing-statistics
         + clear
      + statistics
         + clear
+ ldp
   + discovery
      + interfaces
         + interface name string
            + ipv4
               + reset
               + statistics
                  + clear
            + ipv6
               + reset
               + statistics
                  + clear
            + reset
      + targeted
         + ipv4
            + target remote-address string
               + statistics
                  + clear
         + ipv6
            + target remote-address string
               + statistics
                  + clear
   + peers
      + peer lsr-id (ipv4-address | ipv6-address) label-space-id number
         + reset
         + statistics
            + clear
   + reset-overload
   + statistics
```


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```
      +  clear
   +  targeted-auto-rx
      +  hold-time number
+  mld
   +  interface interface-name string
      +  membership-groups
         +  clear
         +  group group string
            +  clear
            +  source source string
               +  clear
      +  statistics
         +  clear
      +  version
         +  clear
   +  membership-groups
      +  clear
      +  group group string
         +  clear
         +  source source string
            +  clear
   +  statistics
      +  clear
   +  version
      +  clear
+  mld-snooping
   +  interface interface-name string
      +  membership-groups
         +  clear
         +  group group string
            +  clear
            +  source source string
               +  clear
      +  statistics
         +  clear
   +  membership-groups
      +  clear
      +  group group string
         +  clear
         +  source source string
            +  clear
   +  querier
      +  clear
   +  statistics
      +  clear
+  msdp
   +  peer ip-address string
      +  statistics
         +  clear
   +  statistics
      +  clear
+  ospf
   +  instance name string
      +  area area-id
         +  interface interface-name string
            +  neighbors
               +  clear
      +  ldp-synchronization
         +  exit
      +  link-state-database
         +  clear
      +  manual-spf
         +  run
      +  neighbors
```


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```
            +  clear
            +  neighbor neighbor-id
               +  clear
         +  overload
            +  clear
         +  statistics
            +  clear
   +  pim
      +  database
         +  group group (ipv4-address | ipv6-address)
            +  clear
            +  interface interface-name string
               +  clear
            +  source source (ipv4-address | ipv6-address)
               +  clear
               +  interface interface-name string
                  +  clear
         +  interface interface-name string
            +  ipv4
               +  clear
            +  ipv6
               +  clear
         +  ipv4
            +  clear
         +  ipv6
            +  clear
      +  neighbor
         +  interface interface-name string
            +  ipv4
               +  clear
            +  ipv6
               +  clear
         +  ipv4
            +  clear
         +  ipv6
            +  clear
      +  statistics
         +  group group (ipv4-address | ipv6-address)
            +  clear
            +  source source (ipv4-address | ipv6-address)
               +  clear
         +  interface interface-name string
            +  ipv4
               +  clear
            +  ipv6
               +  clear
         +  ipv4
            +  clear
         +  ipv6
            +  clear
   +  stp
      +  bpdu-guard-error
         +  clear
      +  statistics
         +  clear
+  route-table
   +  ipv4-unicast
      +  longest-prefix-match
         +  ipv4-address string
   +  ipv6-unicast
      +  longest-prefix-match
         +  ipv6-address string
+  segment-routing
   +  mpls
```


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```
      +  statistics
         +  clear
+  traffic-engineering-policies
   +  sr-colored
      +  policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
         +  candidate-path protocol-origin keyword discriminator number originator-
asn number originator-address (ipv4-address | ipv6-address)
            +  segment-list segment-list-index number
               +  statistics
                  +  egress
                     +  clear
         +  statistics
            +  ingress
               +  clear
   +  sr-uncolored
      +  policy policy-name string protocol-origin keyword
         +  segment-list segment-list-index number
            +  clear
            +  resignal
         +  statistics
            +  egress
               +  clear
            +  ingress
               +  clear
```


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15.1 network-instance Descriptions

network-instance name *string*

Description Enter the network-instance list instance

Context network-instance name *string*

Tree network-instance

Configurable True

Platforms Supported on all platforms

name *string*

Description A unique name identifying the network instance

Context network-instance name *string*

Configurable True

Platforms Supported on all platforms

bridge-table

Description Enter the bridge-table context

bridge-table

Context network-instance name *string* bridge-table

Tree bridge-table

Configurable True

Platforms Supported on all platforms

mac-duplication

Description Enable the mac-duplication context

Context network-instance name *string* bridge-table mac-duplication

Tree mac-duplication

Configurable True

Platforms Supported on all platforms

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delete-macs-type *keyword*

Description	Type of duplicate mac entries to delete.
Context	network-instance name *string* bridge-table mac-duplication delete-macs-type *keyword*
Tree	delete-macs-type
Options	• all • blackhole-only
Configurable	True
Platforms	Supported on all platforms

duplicate-entries

Description	Enter the duplicate-entries context
Context	network-instance name *string* bridge-table mac-duplication duplicate-entries
Tree	duplicate-entries
Configurable	True
Platforms	Supported on all platforms

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string*
Tree	mac
Configurable	True
Platforms	Supported on all platforms

address *string*

Description	Enter the address context
Context	network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string*
Configurable	True
Platforms	Supported on all platforms

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delete-mac

Description	delete the duplicate mac address.
Context	network-instance name *string* bridge-table mac-duplication duplicate-entries mac address *string* delete-mac
Tree	delete-mac
Configurable	True
Platforms	Supported on all platforms

mac-learning

Description	Enable the mac-learning context
Context	network-instance name *string* bridge-table mac-learning
Tree	mac-learning
Configurable	True
Platforms	Supported on all platforms

delete-all-macs

Description	Delete all learnt mac entries.
Context	network-instance name *string* bridge-table mac-learning delete-all-macs
Tree	delete-all-macs
Configurable	True
Platforms	Supported on all platforms

learnt-entries

Description	Enter the learnt-entries context
Context	network-instance name *string* bridge-table mac-learning learnt-entries
Tree	learnt-entries
Configurable	True
Platforms	Supported on all platforms

mac address *string*

Description	macs learnt on the bridging instance

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Context	network-instance name *string* bridge-table mac-learning learnt-entries mac address *string*
Tree	mac
Configurable	True
Platforms	Supported on all platforms

address *string*

Description	Enter the address context
Context	network-instance name *string* bridge-table mac-learning learnt-entries mac address *string*
Configurable	True
Platforms	Supported on all platforms

delete-mac

Description	delete the learnt mac address.
Context	network-instance name *string* bridge-table mac-learning learnt-entries mac address *string* delete-mac
Tree	delete-mac
Configurable	True
Platforms	Supported on all platforms

proxy-arp

Description	Enable the proxy-arp context
Context	network-instance name *string* bridge-table proxy-arp
Tree	proxy-arp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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duplicate

Description Enable the duplicate context

Context network-instance name *string* bridge-table proxy-arp duplicate

Tree duplicate

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-all

Description Delete all entries.

Context network-instance name *string* bridge-table proxy-arp duplicate delete-all

Tree delete-all

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry address *string*

Description proxy-arp entry to delete

Context network-instance name *string* bridge-table proxy-arp duplicate entry address *string*

Tree entry

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description Enter the address context

Context network-instance name *string* bridge-table proxy-arp duplicate entry address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-ip

Description delete the proxy entry.

Context network-instance name *string* bridge-table proxy-arp duplicate entry address *string* delete-ip

Tree delete-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic

Description Enable the dynamic context

Context network-instance name *string* bridge-table proxy-arp dynamic

Tree dynamic

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-all

Description Delete all entries.

Context network-instance name *string* bridge-table proxy-arp dynamic delete-all

Tree delete-all

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry address *string*

Description proxy-arp entry to delete

Context network-instance name *string* bridge-table proxy-arp dynamic entry address *string*

Tree entry

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table proxy-arp dynamic entry address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-ip

Description delete the proxy entry.

Context network-instance name *string* bridge-table proxy-arp dynamic entry address *string* delete-ip

Tree delete-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

proxy-nd

Description Enable the proxy-nd context

Context network-instance name *string* bridge-table proxy-nd

Tree proxy-nd

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate

Description Enable the duplicate context

Context network-instance name *string* bridge-table proxy-nd duplicate

Tree duplicate

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-all

Description Delete all entries.

Context network-instance name *string* bridge-table proxy-nd duplicate delete-all

Tree delete-all

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

entry address *string*

Description proxy-nd entry to delete

Context network-instance name *string* bridge-table proxy-nd duplicate entry address *string*

Tree entry

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table proxy-nd duplicate entry address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-ip

Description delete the proxy entry.

Context network-instance name *string* bridge-table proxy-nd duplicate entry address *string* delete-ip

Tree delete-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic

Description Enable the dynamic context

Context network-instance name *string* bridge-table proxy-nd dynamic

Tree dynamic

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-all

Description Delete all entries.

Context network-instance name *string* bridge-table proxy-nd dynamic delete-all

Tree delete-all

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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entry address *string*

Description proxy-nd entry to delete

Context network-instance name *string* bridge-table proxy-nd dynamic entry address *string*

Tree entry

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context network-instance name *string* bridge-table proxy-nd dynamic entry address *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-ip

Description delete the proxy entry.

Context network-instance name *string* bridge-table proxy-nd dynamic entry address *string* delete-ip

Tree delete-ip

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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connection-point name *string*

Description	Connection-point information.
Context	network-instance name *string* connection-point name *string*
Tree	connection-point
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	A unique name identifying the connection-point
Context	network-instance name *string* connection-point name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description	Enter the bridge-table context bridge-table
Context	network-instance name *string* connection-point name *string* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-duplication

Description	Enable the mac-duplication context
Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication
Tree	mac-duplication
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-all-macs

Description	Delete all learnt mac entries.
Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication delete-all-macs
Tree	delete-all-macs
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

duplicate-entries

Description	Enter the duplicate-entries context
Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries
Tree	duplicate-entries
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string*
Tree	mac
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *string*

Description Enter the address context

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-mac

Description delete the duplicate mac address.

Context network-instance name *string* connection-point name *string* bridge-table mac-duplication duplicate-entries mac address *string* delete-mac

Tree delete-mac

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-learning

Description Enable the mac-learning context

Context network-instance name *string* connection-point name *string* bridge-table mac-learning

Tree mac-learning

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-all-macs

Description Delete all learnt mac entries.

Context network-instance name *string* connection-point name *string* bridge-table mac-learning delete-all-macs

Tree delete-all-macs

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

learnt-entries

Description	Enter the learnt-entries context
Context	network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries
Tree	learnt-entries
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description	macs learnt on the bridging instance
Context	network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string*
Tree	mac
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description	Enter the address context
Context	network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-mac

Description	delete the learnt mac address.

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Context	network-instance name *string* connection-point name *string* bridge-table mac-learning learnt-entries mac address *string* delete-mac
Tree	delete-mac
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group-based-policy

Description	Enter the group-based-policy context
Context	network-instance name *string* group-based-policy
Tree	group-based-policy
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

acl

Description	Enter the acl context
Context	network-instance name *string* group-based-policy acl
Tree	acl
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

entry sequence-id *number*

Description	List of filter rules.
Context	network-instance name *string* group-based-policy acl entry sequence-id *number*
Tree	entry
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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sequence-id *number*

Description A number to indicate the relative evaluation order of the different entries; lower numbered entries are evaluated before higher numbered entries

Context network-instance name *string* group-based-policy acl entry sequence-id *number*

Range 0 to 65535

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description Enter the statistics context

Context network-instance name *string* group-based-policy acl entry sequence-id *number* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description Reset all aggregate and per-interface statistics associated with this particular entry to zero

Context network-instance name *string* group-based-policy acl entry sequence-id *number* statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description Enter the statistics context

Context network-instance name *string* group-based-policy acl statistics

Tree statistics

Configurable True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Reset all statistics of all entries of the ACL filter to zero
Context	network-instance name *string* group-based-policy acl statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

icmp

Description	Enter the icmp context
Context	network-instance name *string* icmp
Tree	icmp
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context ICMP version 4 statistics
Context	network-instance name *string* icmp statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Resets all the YANG state counters under network-instance/icmp/statistics to zero
Context	network-instance name *string* icmp statistics clear
Tree	clear
Configurable	True

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Platforms	Supported on all platforms

icmp6

Description	Enter the icmp6 context
Context	network-instance name *string* icmp6
Tree	icmp6
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context ICMP version 6 statistics
Context	network-instance name *string* icmp6 statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Resets all the YANG state counters under network-instance/icmp6/statistics to zero
Context	network-instance name *string* icmp6 statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

protocols

Description	Enter the protocols context The routing protocols that are enabled for this network-instance.
Context	network-instance name *string* protocols
Tree	protocols
Configurable	True
Platforms	Supported on all platforms

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bgp

Description Enable the bgp context

Context network-instance name *string* protocols bgp

Tree bgp

Configurable True

Platforms Supported on all platforms

bmp

Description Enter the bmp context

Context network-instance name *string* protocols bgp bmp

Tree bmp

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description Enable the reset context

Context network-instance name *string* protocols bgp bmp reset

Tree reset

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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station name *string*

Description Enter the station list instance

Context network-instance name *string* protocols bgp bmp station name *string*

Tree station

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The configured name of the BMP station, or 'all' to reset every BMP station session in the network-instance

Context network-instance name *string* protocols bgp bmp station name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

debug

Description Enable the debug context

Context network-instance name *string* protocols bgp bmp station name *string* debug

Tree debug

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

events

Description Log BMP session state-machine and connection events

Context network-instance name *string* protocols bgp bmp station name *string* debug events

Tree events

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

messages

Description Log BMP messages (packets) sent to the collector

Context network-instance name *string* protocols bgp bmp station name *string* debug messages

Tree messages

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description Enable the reset context

Context network-instance name *string* protocols bgp bmp station name *string* reset

Tree reset

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-malformed-updates

Description	Enable the clear-malformed-updates context
Context	network-instance name *string* protocols bgp clear-malformed-updates
Tree	clear-malformed-updates
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group-name *string*

Description	Enter the group list instance
Context	network-instance name *string* protocols bgp group group-name *string*
Tree	group
Configurable	True
Platforms	Supported on all platforms

group-name *string*

Description	The configured name of the peer group
Context	network-instance name *string* protocols bgp group group-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

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clear-malformed-updates

Description	Enable the clear-malformed-updates context
Context	network-instance name *string* protocols bgp group group-name *string* clear-malformed-updates
Tree	clear-malformed-updates
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset-peer

Description	Enable the reset-peer context
Context	network-instance name *string* protocols bgp group group-name *string* reset-peer
Tree	reset-peer
Configurable	True
Platforms	Supported on all platforms

peer-as *number*

Description	Hard reset only BGP peers in the peer-group that have the specified peer-AS number, whether they are configured peers or dynamic peers
Context	network-instance name *string* protocols bgp group group-name *string* reset-peer peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

route-flap-damping

Description	Enable the route-flap-damping context

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Context	network-instance name *string* protocols bgp group group-name *string* route-flap-damping
Tree	route-flap-damping
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-history

Description	Clear the route-flap-damping data for all routes received from group peers This also has the effect of unsuppressing routes that were previously suppressed
Context	network-instance name *string* protocols bgp group group-name *string* route-flap-damping clear-history
Tree	clear-history
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

soft-clear

Description	Enable the soft-clear context
Context	network-instance name *string* protocols bgp group group-name *string* soft-clear
Tree	soft-clear
Configurable	True
Platforms	Supported on all platforms

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peer-as *number*

Description Soft reset only BGP peers in the peer-group that have the specified peer-AS number, whether they are configured peers or dynamic peers

Context network-instance name *string* protocols bgp group group-name *string* soft-clear peer-as *number*

Tree peer-as

Range 1 to 4294967295

Configurable True

Platforms Supported on all platforms

route-refresh *identityref*

Description The address family to refresh

This is encoded in the ROUTE_REFRESH message. By default all families are refreshed.

Context network-instance name *string* protocols bgp group group-name *string* soft-clear route-refresh *identityref*

Tree route-refresh

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast

  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast

  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn

  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn

  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn

  L3 MVPN routes (AFI = 2, SAFI = 5)

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- ipv4-flowspec-v1

  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1

  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target

  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4

  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6

  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state

  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description Enter the neighbor list instance

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Tree neighbor

Configurable True

Platforms Supported on all platforms

peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Description The transport address of the BGP peer

The peer-address must be a valid IPv4 unicast address or a valid IPv6 global unicast address. Sessions to a link-local IPv6 address are not supported.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)*

Configurable True

Platforms Supported on all platforms

clear-malformed-updates

Description Enable the clear-malformed-updates context

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Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* clear-malformed-updates

Tree clear-malformed-updates

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset-peer

Description Hard reset the peer

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* reset-peer

Tree reset-peer

Configurable True

Platforms Supported on all platforms

route-flap-damping

Description Enable the route-flap-damping context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-flap-damping

Tree route-flap-damping

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-history

Description Clear the route-flap-damping data for all routes received from the single peer

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This also has the effect of unsuppressing routes that were previously suppressed

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* route-flap-damping clear-history

Tree clear-history

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

soft-clear

Description Enable the soft-clear context

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* soft-clear

Tree soft-clear

Configurable True

Platforms Supported on all platforms

route-refresh *identityref*

Description The address family to refresh

This is encoded in the ROUTE_REFRESH message. By default all families are refreshed.

Context network-instance name *string* protocols bgp neighbor peer-address *(ipv4-address-with-zone | ipv6-address-with-zone)* soft-clear route-refresh *identityref*

Tree route-refresh

Options

- ipv4-unicast

  Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1)
- ipv6-unicast

  Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)
- l3vpn-ipv4-unicast

  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast

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VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)

- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

origin-validation

Description Enter the origin-validation context

On-demand RPKI origin-validation lookup, handled by the BGP manager process. Evaluates the origin-validation state (valid, invalid or not-found) of an arbitrary (prefix, origin-AS) pair against the local ROA database. Both match and origin-as must be supplied. This is a read-only operation: it does not modify the ROA database, any route, or any statistics.

Context network-instance name *string* protocols bgp origin-validation

Tree origin-validation

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

match *(ipv4-prefix | ipv6-prefix)*

Description The route prefix (IPv4 or IPv6, in address/length form) to evaluate against the local ROA database

This is the prefix whose origin-validation state should be computed. It does not need to correspond to a route that is currently present in any Adj-RIB-In; the lookup is performed directly against the ROA database. Must be specified together with origin-as.

Context network-instance name *string* protocols bgp origin-validation match *(ipv4-prefix | ipv6-prefix)*

Tree match

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

origin-as *number*

Description The candidate origin autonomous system number to validate the prefix against

The lookup compares this origin AS and the prefix length of match against the matching ROA entries: the result is valid when a covering ROA authorizes this origin AS at an acceptable max-length, invalid when a covering ROA exists but the origin AS or prefix length is not authorized, and not-found when no covering ROA exists. Must be specified together with match.

Context network-instance name *string* protocols bgp origin-validation origin-as *number*

Tree origin-as

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Range	1 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset-peer

Description	Enable the reset-peer context
Context	network-instance name *string* protocols bgp reset-peer
Tree	reset-peer
Configurable	True
Platforms	Supported on all platforms

peer-as *number*

Description	Hard reset only BGP peers that have the specified peer-AS number, whether they are configured peers or dynamic peers
Context	network-instance name *string* protocols bgp reset-peer peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

route-flap-damping

Description	Enable the route-flap-damping context
Context	network-instance name *string* protocols bgp route-flap-damping
Tree	route-flap-damping
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-history

Description Clear the route-flap-damping data for all routes of the BGP instance

This also has the effect of unsuppressing routes that were previously suppressed

Context network-instance name *string* protocols bgp route-flap-damping clear-history

Tree clear-history

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpki

Description Enter the rpki context

RPKI-RTR operational commands, handled by the RPKI manager process. Nested under the bgp tools container so the tools path mirrors the state path (/network-instance/protocols/ bgp/rpki/session), which is what the mgmt-server CLI relies on to auto-complete configured session names. Dispatch of each command to rpkimgr (rather than bgpmgr) is driven by the tools codegen: the container's owning application is rpki_mgr per rpki_mgr_ config.yml.

Context network-instance name *string* protocols bgp rpki

Tree rpki

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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session name *string*

Description Enter the session context

RPKI-RTR session-scoped operational commands. Use the name 'all' to operate on every session configured under this network-instance.

Context network-instance name *string* protocols bgp rpki session name *string*

Tree session

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The configured name of the RPKI-RTR session, or 'all' to operate on every RPKI-RTR session in the network-instance

Context network-instance name *string* protocols bgp rpki session name *string*

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset the RPKI-RTR session and immediately purge all ROA entries

Forces an immediate TCP connection reset and purges all ROA entries from the session's roa-entries container. roa-entries-active drops to zero on clear. The session then transitions to connecting to re-establish and repopulate the ROA database from the cache server.

This differs from admin-state disable in two ways: it does not enter the cleanup state, and ROA entries are purged immediately rather than via a

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sequential cleanup process. An automatic reconnect attempt is triggered immediately after the clear.

This behavior is consistent with SR OS session clear semantics.

Context network-instance name *string* protocols bgp rpki session name *string* clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

RPKI-RTR statistics operational commands, scoped to this session

Context network-instance name *string* protocols bgp rpki session name *string* statistics

Tree statistics

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset all RPKI-RTR protocol message counters for this session

Resets all protocol message counters and connection-attempts under this session's statistics container to zero. Scoped to the named session only -- clearing one session's counters does not affect any other session. Does not affect ROA entries or session state.

Context network-instance name *string* protocols bgp rpki session name *string* statistics clear

Tree clear

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

soft-clear

Description	Enable the soft-clear context
Context	network-instance name *string* protocols bgp soft-clear
Tree	soft-clear
Configurable	True
Platforms	Supported on all platforms

peer-as *number*

Description	Soft reset only BGP peers that have the specified peer-AS number, whether they are configured peers or dynamic peers
Context	network-instance name *string* protocols bgp soft-clear peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Configurable	True
Platforms	Supported on all platforms

route-refresh *identityref*

Description	The address family to refresh This is encoded in the ROUTE_REFRESH message. By default all families are refreshed.
Context	network-instance name *string* protocols bgp soft-clear route-refresh *identityref*
Tree	route-refresh
Options	• ipv4-unicast Unlabeled IPv4 unicast routes (AFI = 1, SAFI = 1) • ipv6-unicast

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Unlabeled IPv6 unicast routes (AFI = 2, SAFI = 1)

- l3vpn-ipv4-unicast
  VPN-IPv4 unicast address family (AFI = 1, SAFI = 128)
- l3vpn-ipv6-unicast
  VPN-IPv6 unicast address family (AFI = 2, SAFI = 128)
- ipv4-labeled-unicast
  Labeled IPv4 unicast routes (AFI 1, SAFI 4)
- ipv6-labeled-unicast
  Labeled IPv6 unicast routes (AFI 2, SAFI 4)
- evpn
  EVPN routes (AFI = 25, SAFI = 70)
- ipv4-mvpn
  L3 MVPN routes (AFI = 1, SAFI = 5)
- ipv6-mvpn
  L3 MVPN routes (AFI = 2, SAFI = 5)
- ipv4-flowspec-v1
  FlowSpec routes (AFI = 1, SAFI = 133)
- ipv6-flowspec-v1
  FlowSpec routes (AFI = 2, SAFI = 133)
- route-target
  Route target constraint routes (AFI 1, SAFI 132)
- srte-policy-ipv4
  TE Policy Colored SR-MPLS routes (AFI 1, SAFI 73)
- srte-policy-ipv6
  TE Policy Colored SR-MPLS routes (AFI 2, SAFI 73)
- link-state
  Link State (AFI 16388, SAFI 71)

Configurable True

Platforms Supported on all platforms

igmp

Description Enable the igmp context

Context network-instance name *string* protocols igmp

Tree igmp

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of IGMP interfaces
Context	network-instance name *string* protocols igmp interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols igmp interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups
Tree	membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clear all IGMP memberships for this interface

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string*

Tree group

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all IGMP memberships for this group on this interface

Context network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string*
Tree	source
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description	Source address of multicast
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all IGMP memberships for this source on this interface
Context	network-instance name *string* protocols igmp interface interface-name *string* membership-groups group group *string* source source *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols igmp interface interface-name *string* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset IGMP statistics for this interface

Context network-instance name *string* protocols igmp interface interface-name *string* statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description Enter the version context

Context network-instance name *string* protocols igmp interface interface-name *string* version

Tree version

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Reset the IGMP operational version for this interface

Context network-instance name *string* protocols igmp interface interface-name *string* version clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description Enter the membership-groups context

Context network-instance name *string* protocols igmp membership-groups

Tree membership-groups

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the IGMP memberships for all interfaces

Context network-instance name *string* protocols igmp membership-groups clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols igmp membership-groups group group *string*

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Tree group

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all IGMP memberships for this group on all interfaces

Context network-instance name *string* protocols igmp membership-groups group group *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all IGMP memberships for this group on all interfaces

Context network-instance name *string* protocols igmp membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols igmp statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset IGMP statistics for all interfaces

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Context	network-instance name *string* protocols igmp statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description	Enter the version context
Context	network-instance name *string* protocols igmp version
Tree	version
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Reset the IGMP operational version for all interfaces
Context	network-instance name *string* protocols igmp version clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igmp-snooping

Description	Enable the igmp-snooping context
Context	network-instance name *string* protocols igmp-snooping
Tree	igmp-snooping
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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interface interface-name *string*

Description	List of IGMP SNOOPING interfaces
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups
Tree	membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all IGMP SNOOPING memberships for this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all IGMP SNOOPING memberships for this group on this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all IGMP SNOOPING memberships for this source on this interface

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

Context network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics

Tree statistics

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Reset IGMP SNOOPING statistics for this interface
Context	network-instance name *string* protocols igmp-snooping interface interface-name *string* statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols igmp-snooping membership-groups
Tree	membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all IGMP SNOOPING memberships for all interfaces
Context	network-instance name *string* protocols igmp-snooping membership-groups clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group group *string*

Description Multicast group membership

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string*

Tree group

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description Multicast address

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all IGMP SNOOPING memberships for this group on all interfaces

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string* source source *string*

Tree source

Configurable True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all IGMP SNOOPING memberships for this source on all interfaces

Context network-instance name *string* protocols igmp-snooping membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

querier

Description Enter the querier context

Context network-instance name *string* protocols igmp-snooping querier

Tree querier

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all IGMP SNOOPING querier info on all interfaces

Context network-instance name *string* protocols igmp-snooping querier clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols igmp-snooping statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Reset IGMP SNOOPING statistics for all interfaces
Context	network-instance name *string* protocols igmp-snooping statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

isis

Description	Enable the isis context
Context	network-instance name *string* protocols isis
Tree	isis
Configurable	True
Platforms	Supported on all platforms

instance name *string*

Description	List of IS-IS protocol instances associated with this network-instance. Only a single instance is supported for now

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Context	network-instance name *string* protocols isis instance name *string*
Tree	instance
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

name *string*

Description	The name of the IS-IS instance
Context	network-instance name *string* protocols isis instance name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

interface interface-name *string*

Description	List of IS-IS interfaces
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

adjacencies

Description	Enter the adjacencies context

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Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacencies
Tree	adjacencies
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all of the adjacencies on this interface
Context	network-instance name *string* protocols isis instance name *string* interface interface-name *string* adjacencies clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

ldp-synchronization

Description	Enter the ldp-synchronization context IS-IS LDP-IGP synchronisation
Context	network-instance name *string* protocols isis instance name *string* ldp-synchronization
Tree	ldp-synchronization
Configurable	True
Platforms	Supported on all platforms

exit

Description	Advertise the norrmal metric for all IS-IS interfaces, even if some are configured for LDP synchronization and ISIS is not in sync with LDP on these interfaces
Context	network-instance name *string* protocols isis instance name *string* ldp-synchronization exit
Tree	exit
Configurable	True
Platforms	Supported on all platforms

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link-state-database

Description Enter the link-state-database context

The ISIS link state database

Context network-instance name *string* protocols isis instance name *string* link-state-database

Tree link-state-database

Configurable True

Platforms Supported on all platforms

clear

Description Clear the contents of the LSDB.

Context network-instance name *string* protocols isis instance name *string* link-state-database clear

Tree clear

Configurable True

Platforms Supported on all platforms

multi-part-tlv-statistics

Description Enter the multi-part-tlv-statistics context

Context network-instance name *string* protocols isis instance name *string* multi-part-tlv-statistics

Tree multi-part-tlv-statistics

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset all of the IS-IS instance mult-tlv-part statistics to zero.

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Context network-instance name *string* protocols isis instance name *string* multi-part-tlv-statistics clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

overload

Description Enter the overload context

Context network-instance name *string* protocols isis instance name *string* overload

Tree overload

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset ISIS instance overload status.

Context network-instance name *string* protocols isis instance name *string* overload clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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segment-routing-statistics

Description	Enter the segment-routing-statistics context
Context	network-instance name *string* protocols isis instance name *string* segment-routing-statistics
Tree	segment-routing-statistics
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Reset all of the applicable Node, Adj, SID statistics to zero.
Context	network-instance name *string* protocols isis instance name *string* segment-routing-statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols isis instance name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all of the IS-IS instance statistics to zero.
Context	network-instance name *string* protocols isis instance name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

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ldp

Description	Operational tools commands for LDP.
Context	network-instance name *string* protocols ldp
Tree	ldp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discovery

Description	Enter the discovery context
Context	network-instance name *string* protocols ldp discovery
Tree	discovery
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interfaces

Description	Enter the interfaces context
Context	network-instance name *string* protocols ldp discovery interfaces
Tree	interfaces
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description	Enter the interface list instance
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string*
Tree	interface
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Reference type to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols ldp discovery interfaces interface name *string*

String Length 5 to 27

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4

Tree ipv4

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description Reset IPv4 LDP interface

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 reset

Tree reset

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Resets all the LDP instance state counters to zero

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv4 statistics clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6

Tree ipv6

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description Reset IPv6 LDP interface

Context network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 reset

Tree reset

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Resets all the LDP instance state counters to zero
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* ipv6 statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description	Reset LDP interface
Context	network-instance name *string* protocols ldp discovery interfaces interface name *string* reset
Tree	reset
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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targeted

Description	Enter the targeted context
Context	network-instance name *string* protocols ldp discovery targeted
Tree	targeted
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Enter the ipv4 context
Context	network-instance name *string* protocols ldp discovery targeted ipv4
Tree	ipv4
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target remote-address *string*

Description	Enter the target list instance
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string*
Tree	target
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *string*

Description	Reference to neighbor address of the targeted LDP adjacency.
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string*
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Resets all the LDP target counters to zero
Context	network-instance name *string* protocols ldp discovery targeted ipv4 target remote-address *string* statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context
Context	network-instance name *string* protocols ldp discovery targeted ipv6
Tree	ipv6
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target remote-address *string*

Description	Enter the target list instance

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Context	network-instance name *string* protocols ldp discovery targeted ipv6 target remote-address *string*
Tree	target
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-address *string*

Description	Reference to neighbor address of the targeted LDP adjacency.
Context	network-instance name *string* protocols ldp discovery targeted ipv6 target remote-address *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ldp discovery targeted ipv6 target remote-address *string* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Resets all the LDP target counters to zero
Context	network-instance name *string* protocols ldp discovery targeted ipv6 target remote-address *string* statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peers

Description	Enter the peers context
Context	network-instance name *string* protocols ldp peers
Tree	peers
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number*

Description	List of peers.
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsr-id *(ipv4-address | ipv6-address)*

Description	The LSR ID of the peer, to identify the globally unique LSR. This leaf is used together with the leaf 'label-space-id' to form the LDP ID.
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label-space-id *number*

Description	The Label Space ID of the peer, to identify a specific label space within the LSR. This is the last two octets of the LDP ID. This leaf is used together with the leaf 'lsr-id' to form the LDP ID.
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description	Reset the LDP session by closing the TCP connection and establishing a new one.
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number* reset
Tree	reset
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Resets all the LDP instance state counters to zero
Context	network-instance name *string* protocols ldp peers peer lsr-id *(ipv4-address | ipv6-address)* label-space-id *number* statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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reset-overload

Description	Enable the reset-overload context
Context	network-instance name *string* protocols ldp reset-overload
Tree	reset-overload
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ldp statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Resets all the LDP instance state counters to zero
Context	network-instance name *string* protocols ldp statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

targeted-auto-rx

Description	Enter the targeted-auto-rx context
Context	network-instance name *string* protocols ldp targeted-auto-rx
Tree	targeted-auto-rx
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hold-time *number*

Description	Hold-time during which new auto-rx targeted peers will not be generated
Context	network-instance name *string* protocols ldp targeted-auto-rx hold-time *number*
Tree	hold-time
Range	1 to 65535
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mld

Description	Enable the mld context
Context	network-instance name *string* protocols mld
Tree	mld
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of MLD interfaces
Context	network-instance name *string* protocols mld interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description Enter the membership-groups context

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups

Tree membership-groups

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all MLD memberships for this interface

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description Multicast group membership

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Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all MLD memberships for this group on this interface
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string*
Tree	source
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all MLD memberships for this source on this interface

Context network-instance name *string* protocols mld interface interface-name *string* membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols mld interface interface-name *string* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Reset MLD statistics for this interface

Context network-instance name *string* protocols mld interface interface-name *string* statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description Enter the version context

Context network-instance name *string* protocols mld interface interface-name *string* version

Tree version

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset the MLD operational version for this interface

Context network-instance name *string* protocols mld interface interface-name *string* version clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

membership-groups

Description Enter the membership-groups context

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Context	network-instance name *string* protocols mld membership-groups
Tree	membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear the MLD memberships for all interfaces
Context	network-instance name *string* protocols mld membership-groups clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld membership-groups group group *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all MLD memberships for this group on all interfaces

Context network-instance name *string* protocols mld membership-groups group group *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clear all MLD memberships for this group on all interfaces

Context network-instance name *string* protocols mld membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* protocols mld statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset MLD statistics for all interfaces

Context network-instance name *string* protocols mld statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version

Description Enter the version context

Context network-instance name *string* protocols mld version

Tree version

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Reset the MLD operational version for all interfaces
Context	network-instance name *string* protocols mld version clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mld-snooping

Description	Enable the mld-snooping context
Context	network-instance name *string* protocols mld-snooping
Tree	mld-snooping
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface interface-name *string*

Description	List of MLD SNOOPING interfaces
Context	network-instance name *string* protocols mld-snooping interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>

Context network-instance name *string* protocols mld-snooping interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description Enter the membership-groups context

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups

Tree membership-groups

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all MLD SNOOPING memberships for this interface

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description Multicast group membership

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string*

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Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group *string*

Description	Multicast address
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all MLD SNOOPING memberships for this group on this interface
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description	Source addresses of multicast
Context	network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string*
Tree	source
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all MLD SNOOPING memberships for this source on this interface

Context network-instance name *string* protocols mld-snooping interface interface-name *string* membership-groups group group *string* source source *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description Enter the statistics context

Context network-instance name *string* protocols mld-snooping interface interface-name *string* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Reset MLD SNOOPING statistics for this interface

Context network-instance name *string* protocols mld-snooping interface interface-name *string* statistics clear

Tree clear

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

membership-groups

Description	Enter the membership-groups context
Context	network-instance name *string* protocols mld-snooping membership-groups
Tree	membership-groups
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all MLD SNOOPING memberships for all interfaces
Context	network-instance name *string* protocols mld-snooping membership-groups clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

group group *string*

Description	Multicast group membership
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string*
Tree	group
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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group *string*

Description Multicast address

Context network-instance name *string* protocols mld-snooping membership-groups group group *string*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clear all MLD SNOOPING memberships for this group on all interfaces

Context network-instance name *string* protocols mld-snooping membership-groups group group *string* clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source source *string*

Description Source addresses of multicast

Context network-instance name *string* protocols mld-snooping membership-groups group group *string* source source *string*

Tree source

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

source *string*

Description Source address of multicast

Context network-instance name *string* protocols mld-snooping membership-groups group group *string* source source *string*

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all MLD SNOOPING memberships for this source on all interfaces
Context	network-instance name *string* protocols mld-snooping membership-groups group group *string* source source *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

querier

Description	Enter the querier context
Context	network-instance name *string* protocols mld-snooping querier
Tree	querier
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clear all MLD SNOOPING querier info on all interfaces
Context	network-instance name *string* protocols mld-snooping querier clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols mld-snooping statistics

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Tree	statistics
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Reset MLD SNOOPING statistics for all interfaces
Context	network-instance name *string* protocols mld-snooping statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

msdp

Description	Operational tools commands for MSDP.
Context	network-instance name *string* protocols msdp
Tree	msdp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer ip-address *string*

Description	MSDP peer tools.
Context	network-instance name *string* protocols msdp peer ip-address *string*
Tree	peer
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ip-address *string*

Description IP address of the remote MSDP peer.

Context network-instance name *string* protocols msdp peer ip-address *string*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Clear MSDP peer statistics.

Context network-instance name *string* protocols msdp peer ip-address *string* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset all MSDP counters for this peer to zero.

Context network-instance name *string* protocols msdp peer ip-address *string* statistics clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Clear MSDP instance statistics.

Context network-instance name *string* protocols msdp statistics

Tree statistics

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Reset all MSDP counters for this network-instance to zero.
Context	network-instance name *string* protocols msdp statistics clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ospf

Description	Enable the ospf context
Context	network-instance name *string* protocols ospf
Tree	ospf
Configurable	True
Platforms	Supported on all platforms

instance name *string*

Description	List of OSPF protocol instances associated with this network-instance. Only a single instance is supported for now
Context	network-instance name *string* protocols ospf instance name *string*
Tree	instance
Configurable	True
Platforms	Supported on all platforms
Max. Elements	1

name *string*

Description	The name of the OSPF instance
Context	network-instance name *string* protocols ospf instance name *string*

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String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

area area-id

Description	List of OSPF area
Context	network-instance name *string* protocols ospf instance name *string* area area-id
Tree	area
Configurable	True
Platforms	Supported on all platforms

area-id

Description	Enter the area-id context
Context	network-instance name *string* protocols ospf instance name *string* area area-id
Configurable	True
Platforms	Supported on all platforms

interface interface-name *string*

Description	List of OSPF interfaces
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string*
String Length	5 to 27

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Configurable	True
Platforms	Supported on all platforms

neighbors

Description	Enter the neighbors context
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbors
Tree	neighbors
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset all of the adjacencies on this interface
Context	network-instance name *string* protocols ospf instance name *string* area area-id interface interface-name *string* neighbors clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

ldp-synchronization

Description	Enter the ldp-synchronization context
Context	network-instance name *string* protocols ospf instance name *string* ldp-synchronization
Tree	ldp-synchronization
Configurable	True
Platforms	Supported on all platforms

exit

Description	Advertise the norrmal metric for all OSPF interfaces, even if some are configured for LDP synchronization and OSPF is not in sync with LDP on these interfaces
Context	network-instance name *string* protocols ospf instance name *string* ldp-synchronization exit
Tree	exit

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Configurable	True
Platforms	Supported on all platforms

link-state-database

Description	Enter the link-state-database context The OSPF link state database
Context	network-instance name *string* protocols ospf instance name *string* link-state-database
Tree	link-state-database
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear the contents of the LSDB.
Context	network-instance name *string* protocols ospf instance name *string* link-state-database clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

manual-spf

Description	Enter the manual-spf context
Context	network-instance name *string* protocols ospf instance name *string* manual-spf
Tree	manual-spf
Configurable	True
Platforms	Supported on all platforms

run

Description	Run a SPF calculation.
Context	network-instance name *string* protocols ospf instance name *string* manual-spf run
Tree	run

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Configurable	True
Platforms	Supported on all platforms

neighbors

Description	Enter the neighbors context Container for OSPF neighbors tools
Context	network-instance name *string* protocols ospf instance name *string* neighbors
Tree	neighbors
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear all OSPF neighbors
Context	network-instance name *string* protocols ospf instance name *string* neighbors clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

neighbor neighbor-id

Description	Enter the neighbor list instance
Context	network-instance name *string* protocols ospf instance name *string* neighbors neighbor neighbor-id
Tree	neighbor
Configurable	True
Platforms	Supported on all platforms

neighbor-id

Description	The neighbor's ip-address in case of OSPFv2, the router-id otherwise
Context	network-instance name *string* protocols ospf instance name *string* neighbors neighbor neighbor-id
Configurable	True
Platforms	Supported on all platforms

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clear

Description	Reset this neighbor in the OSPF instance
Context	network-instance name *string* protocols ospf instance name *string* neighbors neighbor neighbor-id clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

overload

Description	Enter the overload context
Context	network-instance name *string* protocols ospf instance name *string* overload
Tree	overload
Configurable	True
Platforms	Supported on all platforms

clear

Description	Reset OSPF instance overload status.
Context	network-instance name *string* protocols ospf instance name *string* overload clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	network-instance name *string* protocols ospf instance name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

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clear

Description Reset all of the OSPF instance statistics to zero.

Context network-instance name *string* protocols ospf instance name *string* statistics clear

Tree clear

Configurable True

Platforms Supported on all platforms

pim

Description Enable the pim context

Context network-instance name *string* protocols pim

Tree pim

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

database

Description Enter the database context

Context network-instance name *string* protocols pim database

Tree database

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *(ipv4-address | ipv6-address)*

Description Multicast group

Context network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)*

Tree group

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *(ipv4-address | ipv6-address)*

Description	Multicast group address
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all PIM instance database entries for this group
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of PIM interfaces
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all PIM database entries for this multicast group on the interface
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* interface interface-name *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *(ipv4-address | ipv6-address)*

Description	Source addresses
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)*
Tree	source
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *(ipv4-address | ipv6-address)*

Description	Source address

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Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all PIM database entries for this group and source
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of PIM interfaces
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)* interface interface-name *string*
String Length	5 to 27

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Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all PIM database entries for this group and source on this interface
Context	network-instance name *string* protocols pim database group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)* interface interface-name *string* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description	List of PIM interfaces
Context	network-instance name *string* protocols pim database interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>
Context	network-instance name *string* protocols pim database interface interface-name *string*
String Length	5 to 27
Configurable	True

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Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 specific database

Context network-instance name *string* protocols pim database interface interface-name *string* ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM database

Context network-instance name *string* protocols pim database interface interface-name *string* ipv4 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

IPv6 specific statistics

Context network-instance name *string* protocols pim database interface interface-name *string* ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM database

Context network-instance name *string* protocols pim database interface interface-name *string* ipv6 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 multicast database tools

Context network-instance name *string* protocols pim database ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM instance database

Context network-instance name *string* protocols pim database ipv4 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv6

Description Enter the ipv6 context

IPv6 multicast database tools

Context network-instance name *string* protocols pim database ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM instance database

Context network-instance name *string* protocols pim database ipv6 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

neighbor

Description Enter the neighbor context

Clear PIM neighbors by disabling pim adjacency messages

Context network-instance name *string* protocols pim neighbor

Tree neighbor

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description List of PIM interfaces

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Context	network-instance name *string* protocols pim neighbor interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description	Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>
Context	network-instance name *string* protocols pim neighbor interface interface-name *string*
String Length	5 to 27
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description	Enter the ipv4 context Clear IPv4 specific adjacency on this interface
Context	network-instance name *string* protocols pim neighbor interface interface-name *string* ipv4
Tree	ipv4
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear the PIM adjacency
Context	network-instance name *string* protocols pim neighbor interface interface-name *string* ipv4 clear

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Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

Clear IPv6 specific adjacency on this interface

Context network-instance name *string* protocols pim neighbor interface interface-name *string* ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM adjacency

Context network-instance name *string* protocols pim neighbor interface interface-name *string* ipv6 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

Clear all IPv4 PIM adjacency on the system

Context network-instance name *string* protocols pim neighbor ipv4

Tree ipv4

Configurable True

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Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear the PIM adjacency
Context	network-instance name *string* protocols pim neighbor ipv4 clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description	Enter the ipv6 context Clear all IPv6 PIM adjacency on the systems
Context	network-instance name *string* protocols pim neighbor ipv6
Tree	ipv6
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear the PIM adjacency
Context	network-instance name *string* protocols pim neighbor ipv6 clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Context network-instance name *string* protocols pim statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group group *(ipv4-address | ipv6-address)*

Description Multicast group

Context network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)*

Tree group

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

group *(ipv4-address | ipv6-address)*

Description Multicast group address

Context network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)*

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all PIM statistics for this group

Context network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)* clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source source *(ipv4-address | ipv6-address)*

Description	Source addresses.
Context	network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)*
Tree	source
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source *(ipv4-address | ipv6-address)*

Description	Source address
Context	network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all PIM statistics for this group and source
Context	network-instance name *string* protocols pim statistics group group *(ipv4-address | ipv6-address)* source source *(ipv4-address | ipv6-address)* clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-

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10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-name *string*

Description List of PIM interfaces

Context network-instance name *string* protocols pim statistics interface interface-name *string*

Tree interface

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-name *string*

Description Reference to a specific subinterface of the form <interface-name>.<subinterface-index>, mpls-if-<index> or mpls-virtual-if-<index>

Context network-instance name *string* protocols pim statistics interface interface-name *string*

String Length 5 to 27

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4

Description Enter the ipv4 context

IPv4 multicast PDU statistics

Context network-instance name *string* protocols pim statistics interface interface-name *string* ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clear the PIM statistics

Context network-instance name *string* protocols pim statistics interface interface-name *string* ipv4 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

IPv6 multicast PDU statistics

Context network-instance name *string* protocols pim statistics interface interface-name *string* ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM statistics

Context network-instance name *string* protocols pim statistics interface interface-name *string* ipv6 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ipv4

Description Enter the ipv4 context

IPv4 multicast PDU statistics

Context network-instance name *string* protocols pim statistics ipv4

Tree ipv4

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM statistics

Context network-instance name *string* protocols pim statistics ipv4 clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6

Description Enter the ipv6 context

IPv6 multicast PDU statistics

Context network-instance name *string* protocols pim statistics ipv6

Tree ipv6

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the PIM statistics

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Context	network-instance name *string* protocols pim statistics ipv6 clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stp

Description	Enable the stp context
Context	network-instance name *string* protocols stp
Tree	stp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-error

Description	Enter the bpdu-guard-error context
Context	network-instance name *string* protocols stp bpdu-guard-error
Tree	bpdu-guard-error
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear Bpdu Guard Error
Context	network-instance name *string* protocols stp bpdu-guard-error clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context

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Context	network-instance name *string* protocols stp statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear all Stp statistics
Context	network-instance name *string* protocols stp statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

route-table

Description	Enable the route-table context
Context	network-instance name *string* route-table
Tree	route-table
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-unicast

Description	Enter the ipv4-unicast context The container for the IPv4 unicast routing table of the network instance.
Context	network-instance name *string* route-table ipv4-unicast
Tree	ipv4-unicast
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

longest-prefix-match

Description Enter the longest-prefix-match context

Context network-instance name *string* route-table ipv4-unicast longest-prefix-match

Tree longest-prefix-match

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv4-address *string*

Description The IPv4 address for which the longest prefix match route should be returned

Context network-instance name *string* route-table ipv4-unicast longest-prefix-match ipv4-address *string*

Tree ipv4-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-unicast

Description Enter the ipv6-unicast context

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The container for the IPv6 unicast routing table of the network instance.

Context network-instance name *string* route-table ipv6-unicast

Tree ipv6-unicast

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

longest-prefix-match

Description Enter the longest-prefix-match context

Context network-instance name *string* route-table ipv6-unicast longest-prefix-match

Tree longest-prefix-match

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ipv6-address *string*

Description The IPv6 address for which the longest prefix match route should be returned

Context network-instance name *string* route-table ipv6-unicast longest-prefix-match ipv6-address *string*

Tree ipv6-address

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-routing

Description Enter the segment-routing context

segment-routing info

Context network-instance name *string* segment-routing

Tree segment-routing

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls

Description Enable the mpls context

Context network-instance name *string* segment-routing mpls

Tree mpls

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context network-instance name *string* segment-routing mpls statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Reset SID statistics to zero.

Context network-instance name *string* segment-routing mpls statistics clear

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Tree	clear
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-engineering-policies

Description	Enter the traffic-engineering-policies context
Context	network-instance name *string* traffic-engineering-policies
Tree	traffic-engineering-policies
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-colored

Description	Enter the sr-colored context
Context	network-instance name *string* traffic-engineering-policies sr-colored
Tree	sr-colored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Enter the policy list instance
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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color *number*

Description Name of Colored Traffic Engineering Policy to be traced. Any programmed candidate-path can be traced.

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Colored Traffic Engineering Policy, endpoint IP address.

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Description SR policy candidate paths. This list includes local static policies, but only those that have both a color and endpoint.

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Tree candidate-path

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description Instantiation mechanism used to create the candidate path

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Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description Candidate path discriminator

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-asn *number*

Description Autonomous System (ASN) Identifier of the node that signalled/instantiated the candidate path on headend

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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originator-address *(ipv4-address | ipv6-address)*

Description	IP address Identifier of the node that signalled/instantiated the candidate path on headend
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list segment-list-index *number*

Description	Enter the segment-list list instance
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number*
Tree	segment-list
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Index to enumerate the different segment lists of a TE policy.
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number*
Range	1 to 32
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

TE Policy Statistics tools options

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

TE Policy egress statistics

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress

Tree egress

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear TE Policy egress statistics

Context network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* candidate-path protocol-origin *keyword* discriminator *number* originator-asn *number* originator-address *(ipv4-address | ipv6-address)* segment-list segment-list-index *number* statistics egress clear

Tree clear

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context TE Policy Statistics tools options
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics
Tree	statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description	Enter the ingress context TE Policy egress statistics
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress
Tree	ingress
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear TE Policy egress statistics
Context	network-instance name *string* traffic-engineering-policies sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* statistics ingress clear
Tree	clear
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-uncolored

Description	Enter the sr-uncolored context
Context	network-instance name *string* traffic-engineering-policies sr-uncolored
Tree	sr-uncolored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string* protocol-origin *keyword*

Description	List of traffic engineering policies
Context	network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description	The name of the traffic engineering policy
Context	network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocol-origin *keyword*

Description Uncolored Traffic Enginering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list segment-list-index *number*

Description Enter the segment-list list instance

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number*

Tree segment-list

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description Index to enumerate the different segment lists of a TE policy.

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number*

Range 1 to 32

Configurable True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear segment-list

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

resignal

Description Trigger resignal for segment-list

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list segment-list-index *number* resignal

Tree resignal

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

TE Policy Statistics tools options

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics

Tree statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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egress

Description Enter the egress context

TE Policy egress statistics

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress

Tree egress

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear TE Policy egress statistics

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics egress clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

TE Policy ingress statistics

Context network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress

Tree ingress

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear TE Policy ingress statistics

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Context	network-instance name *string* traffic-engineering-policies sr-uncolored policy policy-name *string* protocol-origin *keyword* statistics ingress clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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16 tools oam

```
oam
+  ethcfm
   +  clear-cfm-statistics
   +  delete-auto-discovered-meps
   +  delete-learned-remote-macs
   +  domain domain-id string
      +  association association-id string
         +  delete-auto-discovered-meps
         +  delete-learned-remote-macs
         +  mep mep-id number
            +  clear-cfm-statistics
            +  delete-learned-remote-macs
            +  on-demand
               +  linktrace
                  +  target (unicast-mac-address | number)
                  +  ttl number
               +  loopback
                  +  data-tlv-size number
                  +  priority number
                  +  target (unicast-mac-address | number | keyword)
            +  remote-mep remote-mep-id number
               +  delete-auto-discovered-meps
               +  delete-learned-remote-macs
            +  terminate-active-test keyword
      +  delete-auto-discovered-meps
      +  delete-learned-remote-macs
+  lsp-ping
   +  ldp
      +  clear
      +  fec prefix (ipv4-prefix | ipv6-prefix)
         +  destination-ip (ipv4-address | ipv6-address)
         +  ecmp-interface-select string
         +  ecmp-next-hop-select (ipv4-address | ipv6-address)
         +  interval number
         +  mpls-ttl number
         +  probe-size number
         +  send-count number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  rsvp-te
      +  clear
      +  tunnel tunnel-name string
         +  destination-ip (ipv4-address | ipv6-address)
         +  interval number
         +  mpls-ttl number
         +  path string
         +  probe-size number
         +  send-count number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  sr-isis
      +  clear
      +  prefix-sid prefix (ipv4-prefix | ipv6-prefix)
         +  destination-ip (ipv4-address | ipv6-address)
```


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```
         +  ecmp-interface-select string
         +  ecmp-next-hop-select (ipv4-address | ipv6-address)
         +  igp-instance number
         +  interval number
         +  mpls-ttl number
         +  probe-size number
         +  send-count number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  te-policy
      +  sr-colored
         +  clear
         +  policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            +  destination-ip (ipv4-address | ipv6-address)
            +  discriminator number
            +  ecmp-interface-select string
            +  ecmp-next-hop-select (ipv4-address | ipv6-address)
            +  interval number
            +  mpls-ttl number
            +  originator-address (ipv4-address | ipv6-address)
            +  originator-asn number
            +  probe-size number
            +  protocol-origin keyword
            +  segment-list-index number
            +  send-count number
            +  source-ip (ipv4-address | ipv6-address)
            +  timeout number
            +  traffic-class number
      +  sr-uncolored
         +  clear
         +  policy policy-name string protocol-origin keyword
            +  destination-ip (ipv4-address | ipv6-address)
            +  ecmp-interface-select string
            +  ecmp-next-hop-select (ipv4-address | ipv6-address)
            +  interval number
            +  mpls-ttl number
            +  probe-size number
            +  segment-list-index number
            +  send-count number
            +  source-ip (ipv4-address | ipv6-address)
            +  timeout number
            +  traffic-class number
+  lsp-trace
   +  ldp
      +  clear
      +  fec prefix (ipv4-prefix | ipv6-prefix)
         +  destination-ip (ipv4-address | ipv6-address)
         +  ecmp-interface-select string
         +  ecmp-next-hop-select (ipv4-address | ipv6-address)
         +  interval number
         +  maximum-failures number
         +  maximum-mpls-ttl number
         +  minimum-mpls-ttl number
         +  probe-count number
         +  probe-size number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  rsvp-te
      +  clear
      +  tunnel tunnel-name string
         +  destination-ip (ipv4-address | ipv6-address)
```


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```
         +  interval number
         +  maximum-failures number
         +  maximum-mpls-ttl number
         +  minimum-mpls-ttl number
         +  path string
         +  probe-count number
         +  probe-size number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  sr-isis
      +  clear
      +  prefix-sid prefix (ipv4-prefix | ipv6-prefix)
         +  destination-ip (ipv4-address | ipv6-address)
         +  ecmp-interface-select string
         +  ecmp-next-hop-select (ipv4-address | ipv6-address)
         +  igp-instance number
         +  interval number
         +  maximum-failures number
         +  maximum-mpls-ttl number
         +  minimum-mpls-ttl number
         +  probe-count number
         +  probe-size number
         +  source-ip (ipv4-address | ipv6-address)
         +  timeout number
         +  traffic-class number
   +  te-policy
      +  sr-colored
         +  clear
         +  policy color number endpoint (ipv4-address-unicast | ipv6-address-unicast-without-
local)
            +  destination-ip (ipv4-address | ipv6-address)
            +  discriminator number
            +  ecmp-interface-select string
            +  ecmp-next-hop-select (ipv4-address | ipv6-address)
            +  interval number
            +  maximum-failures number
            +  maximum-mpls-ttl number
            +  minimum-mpls-ttl number
            +  originator-address (ipv4-address | ipv6-address)
            +  originator-asn number
            +  probe-count number
            +  probe-size number
            +  protocol-origin keyword
            +  segment-list-index number
            +  source-ip (ipv4-address | ipv6-address)
            +  timeout number
            +  traffic-class number
      +  sr-uncolored
         +  clear
         +  policy policy-name string protocol-origin keyword
            +  destination-ip (ipv4-address | ipv6-address)
            +  ecmp-interface-select string
            +  ecmp-next-hop-select (ipv4-address | ipv6-address)
            +  interval number
            +  maximum-failures number
            +  maximum-mpls-ttl number
            +  minimum-mpls-ttl number
            +  probe-count number
            +  probe-size number
            +  segment-list-index number
            +  source-ip (ipv4-address | ipv6-address)
            +  timeout number
            +  traffic-class number
```


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```
+  performance-monitoring
   +  ethcfm
      +  session session-name string
         +  clear
         +  on-demand-action keyword
   +  ip
      +  session session-name string
         +  clear
         +  on-demand-action keyword
+  service-activation-testhead
   +  clear
   +  service-test test-name string
      +  clear
         +  run number
      +  start
      +  stop
+  twamp
   +  server
      +  network-instance name string
         +  clear
```


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16.1 oam Descriptions

oam

Description	Enclosing container for OAM management.
Context	oam
Tree	oam
Configurable	True
Platforms	Supported on all platforms

ethcfm

Description	Enter ETH-CFM on-demand tools
Context	oam ethcfm
Tree	ethcfm
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-cfm-statistics

Description	Clears ETH-CFM statistics This clears the statistics at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all ETH-CFM system statistics are cleared. If the command is issued at the ethcfm domain association local-mep those individual mep OpCode statistics will be cleared.
Context	oam ethcfm clear-cfm-statistics
Tree	clear-cfm-statistics
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-auto-discovered-meps

Description	Delete discovered meps from the remote mep database

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This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be deleted.

Context oam ethcfm delete-auto-discovered-meps

Tree delete-auto-discovered-meps

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-learned-remote-macs

Description Delete learned remote macs from the mep mac table

This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be delete.

Context oam ethcfm delete-learned-remote-macs

Tree delete-learned-remote-macs

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain domain-id *string*

Description Enter the domain list instance

Context oam ethcfm domain domain-id *string*

Tree domain

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

domain-id *string*

Description Enter the domain-id context

Context oam ethcfm domain domain-id *string*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association association-id *string*

Description	Enter the association list instance
Context	oam ethcfm domain domain-id *string* association association-id *string*
Tree	association
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

association-id *string*

Description	Enter the association-id context
Context	oam ethcfm domain domain-id *string* association association-id *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-auto-discovered-meps

Description	Delete discovered meps from the remote mep database This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be deleted.
Context	oam ethcfm domain domain-id *string* association association-id *string* delete-auto-discovered-meps
Tree	delete-auto-discovered-meps
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-learned-remote-macs

Description Delete learned remote macs from the mep mac table

This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be delete.

Context oam ethcfm domain domain-id *string* association association-id *string* delete-learned-remote-macs

Tree delete-learned-remote-macs

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep mep-id *number*

Description Enter the mep list instance

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number*

Tree mep

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mep-id *number*

Description Enter the mep-id context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-cfm-statistics

Description Clears ETH-CFM statistics

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This clears the statistics at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all ETH-CFM system statistics are cleared. If the command is issued at the ethcfm domain association local-mep those individual mep OpCode statistics will be cleared.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* clear-cfm-statistics

Tree clear-cfm-statistics

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-learned-remote-macs

Description Delete learned remote macs from the mep mac table

This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be delete.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* delete-learned-remote-macs

Tree delete-learned-remote-macs

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

on-demand

Description Enter the on-demand context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand

Tree on-demand

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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linktrace

Description Enter the linktrace context

Perform an Eth-CFM linktrace test

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand linktrace

Tree linktrace

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

target *(unicast-mac-address | number)*

Description Target MAC address or MEP ID for the test.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand linktrace target *(unicast-mac-address | number)*

Tree target

Range 1 to 8191

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ttl *number*

Description Time to live value encoded into the CFM PDU

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand linktrace ttl *number*

Tree ttl

Range 0 to 255

Default 64

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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loopback

Description Enter the loopback context

Perform an Eth-CFM loopback test

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand loopback

Tree loopback

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

data-tlv-size *number*

Description The Data TLV byte count for a LBM test

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand loopback data-tlv-size *number*

Tree data-tlv-size

Range 0 | 3 to 9502

Default 0

Units bytes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

priority *number*

Description The dot1p priority to be used in the transmitted LBM test packet

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand loopback priority *number*

Tree priority

Range 0 to 7

Default 7

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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target *(unicast-mac-address | number | keyword)*

Description	Target MAC address or MEP ID or multicast keyword for the test The multicast enumeration will be replaced with a Class 1 MAC address in the form 01:80:c2:00:00:3x. Where x = the domain level.
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* on-demand loopback target *(unicast-mac-address | number | keyword)*
Tree	target
Range	1 to 8191
Options	• multicast
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep remote-mep-id *number*

Description	Remote MEP ID from the remote MEP database
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* remote-mep remote-mep-id *number*
Tree	remote-mep
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-mep-id *number*

Description	Enter the remote-mep-id context
Context	oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* remote-mep remote-mep-id *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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delete-auto-discovered-meps

Description Delete discovered meps from the remote mep database

This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be deleted.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* remote-mep remote-mep-id *number* delete-auto-discovered-meps

Tree delete-auto-discovered-meps

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-learned-remote-macs

Description Delete learned remote macs from the mep mac table

This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be delete.

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* remote-mep remote-mep-id *number* delete-learned-remote-macs

Tree delete-learned-remote-macs

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

terminate-active-test *keyword*

Description Enter the terminate-active-test context

Context oam ethcfm domain domain-id *string* association association-id *string* mep mep-id *number* terminate-active-test *keyword*

Tree terminate-active-test

Options

- loopback
- linktrace

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-auto-discovered-meps

Description	Delete discovered meps from the remote mep database This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be deleted.
Context	oam ethcfm domain domain-id *string* delete-auto-discovered-meps
Tree	delete-auto-discovered-meps
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delete-learned-remote-macs

Description	Delete learned remote macs from the mep mac table This deletes the entries at the relative hierarchy to the command instance. For example, if the command is issued directly under ethcfm all entries are deleted. If the command is issued at the ethcfm domain association local-mep remote-mep that specific entry will be delete.
Context	oam ethcfm domain domain-id *string* delete-learned-remote-macs
Tree	delete-learned-remote-macs
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-ping

Description	Enter the lsp-ping context Initiate LSP ping of the remote endpoint of an MPLS or segment routing tunnel
Context	oam lsp-ping

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Tree	lsp-ping
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp

Description	Enter the ldp context Parameters required to ping the endpoint of an LDP tunnel
Context	oam lsp-ping ldp
Tree	ldp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all LDP ping session transmit and receive packet counts and all error counts
Context	oam lsp-ping ldp clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the fec list instance
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Tree	fec
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *(ipv4-prefix | ipv6-prefix)*

Description The IPv4 or IPv6 prefix associated with the FEC

This is the destination that is being pinged.

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS echo request message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description Send the LSP ping messages out the specified subinterface

If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically

Context oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* ecmp-interface-select *string*

Tree ecmp-interface-select

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP ping messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS echo-request messages in case of send-count > 1
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The TTL value written into the topmost label stack entry of the MPLS echo-request message This TTL is expected to be decremented at each hop along the path to the destination. If TTL reaches 1 the segment routing packet will be discrded due to TTL expiry and the ping will fail if the destination has not been reached uyet.
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* mpls-ttl *number*
Tree	mpls-ttl
Range	1 to 255

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Default	255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-count *number*

Description	The number of MPLS echo-request messages to be sent in sequence
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* send-count *number*
Tree	send-count
Range	1 to 100
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address \| ipv6-address)*

Description	The source IP address of the UDP/IP MPLS echo request message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-

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	instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS echo-reply message before considering that the ping failed
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-ping ldp fec prefix *(ipv4-prefix | ipv6-prefix)* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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rsvp-te

Description	Enter the rsvp-te context Parameters required to ping the endpoint of an RSVP-TE tunnel
Context	oam lsp-ping rsvp-te
Tree	rsvp-te
Configurable	True
Platforms	mpls-oam-rsvp-te

clear

Description	Clear all RSVP-TE ping session transmit and receive packet counts and all error counts
Context	oam lsp-ping rsvp-te clear
Tree	clear
Configurable	True
Platforms	mpls-oam-rsvp-te

tunnel tunnel-name *string*

Description	Enter the tunnel list instance
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string*
Tree	tunnel
Configurable	True
Platforms	mpls-oam-rsvp-te

tunnel-name *string*

Description	The RSVP-TE tunnel name This is the tunnel that is being pinged.
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string*
String Length	1 to 64
Configurable	True
Platforms	mpls-oam-rsvp-te

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destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS echo request message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms mpls-oam-rsvp-te

interval *number*

Description The time interval between successive MPLS echo-request messages in case of send-count > 1

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* interval *number*

Tree interval

Range 1 to 10

Default 1

Units seconds

Configurable True

Platforms mpls-oam-rsvp-te

mpls-ttl *number*

Description The TTL value written into the topmost label stack entry of the MPLS echo-request message

This TTL is expected to be decremented at each hop along the path to the destination. If TTL reaches 1 the segment routing packet will be discrded due to TTL expiry and the ping will fail if the destination has not been reached uyet.

Context oam lsp-ping rsvp-te tunnel tunnel-name *string* mpls-ttl *number*

Tree mpls-ttl

Range 1 to 255

Default 255

Configurable True

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Platforms	mpls-oam-rsvp-te

path *string*

Description	The P2P path name within the RSVP-TE tunnel When not specified, the active path of the tunnel is used.
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* path *string*
Tree	path
String Length	1 to 64
Configurable	True
Platforms	mpls-oam-rsvp-te

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	mpls-oam-rsvp-te

send-count *number*

Description	The number of MPLS echo-request messages to be sent in sequence
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* send-count *number*
Tree	send-count
Range	1 to 100
Default	1
Configurable	True
Platforms	mpls-oam-rsvp-te

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source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address of the UDP/IP MPLS echo request message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	mpls-oam-rsvp-te

timeout *number*

Description	The maximum time the sender waits to receive an MPLS echo-reply message before considering that the ping failed
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	mpls-oam-rsvp-te

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-ping rsvp-te tunnel tunnel-name *string* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	mpls-oam-rsvp-te

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sr-isis

Description	Enter the sr-isis context Parameters required to ping the endpoint of an SR-ISIS tunnel
Context	oam lsp-ping sr-isis
Tree	sr-isis
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all SR-ISIS ping session transmit and receive packet counts and all error counts
Context	oam lsp-ping sr-isis clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the prefix-sid list instance
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix-sid
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description	The IPv4 or IPv6 prefix associated with the SID This is the destination that is being pinged.
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description	The destination IP address of the UDP/IP MPLS echo request message This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description	Send the LSP ping messages out the specified subinterface If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* ecmp-interface-select *string*
Tree	ecmp-interface-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP ping messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igp-instance *number*

Description	ISIS instance id
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* igp-instance *number*
Tree	igp-instance
Range	0 to 255
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS echo-request messages in case of send-count > 1
Context	oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The TTL value written into the topmost label stack entry of the MPLS echo-request message This TTL is expected to be decremented at each hop along the path to the destination. If TTL reaches 1 the segment routing packet will be discrded due

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to TTL expiry and the ping will fail if the destination has not been reached uyet.

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* mpls-ttl *number*

Tree mpls-ttl

Range 1 to 255

Default 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 1

Units bytes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-count *number*

Description The number of MPLS echo-request messages to be sent in sequence

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* send-count *number*

Tree send-count

Range 1 to 100

Default 1

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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source-ip *(ipv4-address | ipv6-address)*

Description The source IP address of the UDP/IP MPLS echo request message

This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* source-ip *(ipv4-address | ipv6-address)*

Tree source-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description The maximum time the sender waits to receive an MPLS echo-reply message before considering that the ping failed

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* timeout *number*

Tree timeout

Range 1 to 60

Default 3

Units seconds

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description Enter the traffic-class context

Context oam lsp-ping sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* traffic-class *number*

Tree traffic-class

Range 0 to 7

Default 7

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy

Description	Enter the te-policy context Parameters required to ping the endpoint of a TE-Policy tunnel
Context	oam lsp-ping te-policy
Tree	te-policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-colored

Description	Enter the sr-colored context
Context	oam lsp-ping te-policy sr-colored
Tree	sr-colored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all colored MPLS TE-Policy trace sessions transmit and receive packet counts and all error counts
Context	oam lsp-ping te-policy sr-colored clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Enter the policy list instance

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Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

color *number*

Description	Name of Colored Traffic Engineering Policy to be tested. Any programmed candidate-path can be probed.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Colored Traffic Engineering Policy, endpoint IP address.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description	The destination IP address of the UDP/IP MPLS echo request message This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description	Candidate path discriminator
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* discriminator *number*
Tree	discriminator
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description	Send the LSP ping messages out the specified subinterface If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* ecmp-interface-select *string*
Tree	ecmp-interface-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP ping messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS echo-request messages in case of send-count > 1
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The TTL value written into the topmost label stack entry of the MPLS echo-request message This TTL is expected to be decremented at each hop along the path to the destination. If TTL reaches 1 the segment routing packet will be discrded due to TTL expiry and the ping will fail if the destination has not been reached uyet.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* mpls-ttl *number*
Tree	mpls-ttl
Range	1 to 255
Default	255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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originator-address *(ipv4-address | ipv6-address)*

Description	IP address Identifier of the node that signalled/instantiated the candidate path on headend
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* originator-address *(ipv4-address | ipv6-address)*
Tree	originator-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-asn *number*

Description	Autonomous System (ASN) Identifier of the node that signalled/instantiated the candidate path on headend
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* originator-asn *number*
Tree	originator-asn
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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protocol-origin *keyword*

Description Instantiation mechanism used to create the candidate path

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protocol-origin *keyword*

Tree protocol-origin

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description Colored Traffic Engineering Policy active segment-list index

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* segment-list-index *number*

Tree segment-list-index

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-count *number*

Description The number of MPLS echo-request messages to be sent in sequence

Context oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* send-count *number*

Tree send-count

Range 1 to 100

Default 1

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address of the UDP/IP MPLS echo request message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS echo-reply message before considering that the ping failed
Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context

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Context	oam lsp-ping te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-uncolored

Description	Enter the sr-uncolored context
Context	oam lsp-ping te-policy sr-uncolored
Tree	sr-uncolored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all uncolored MPLS TE-Policy ping session transmit and receive packet counts and all error counts
Context	oam lsp-ping te-policy sr-uncolored clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string* protocol-origin *keyword*

Description	Enter the policy list instance
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Tree	policy
Configurable	True

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Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description Name of Uncolored Traffic Engineering Policy to be tested. ny available primary or standby or active secondaty candidate-path can be probed.

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description Uncolored Traffic Engrineering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*

Options

- pcep

  PCEP used as signalling mechanism for the candidate path
- bgp

  BGP used as signalling mechanism for the candidate path
- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS echo request message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can

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help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description Send the LSP ping messages out the specified subinterface

If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* ecmp-interface-select *string*

Tree ecmp-interface-select

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description Send the LSP ping messages to the specified next-hop

If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically

Context oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Tree ecmp-next-hop-select

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description The time interval between successive MPLS echo-request messages in case of send-count > 1

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Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mpls-ttl *number*

Description	The TTL value written into the topmost label stack entry of the MPLS echo-request message This TTL is expected to be decremented at each hop along the path to the destination. If TTL reaches 1 the segment routing packet will be discrded due to TTL expiry and the ping will fail if the destination has not been reached uyet.
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* mpls-ttl *number*
Tree	mpls-ttl
Range	1 to 255
Default	255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS echo-request message. Probe size does not include MPLS headers, if any
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Uncolored Traffic Engineering Policy active segment-list index
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list-index *number*
Tree	segment-list-index
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

send-count *number*

Description	The number of MPLS echo-request messages to be sent in sequence
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* send-count *number*
Tree	send-count
Range	1 to 100
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address of the UDP/IP MPLS echo request message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS echo-reply message before considering that the ping failed
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-ping te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lsp-trace

Description	Enter the lsp-trace context Perform LSP trace of the path towards the remote endpoint of an MPLS or segment routing tunnel

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Context	oam lsp-trace
Tree	lsp-trace
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ldp

Description	Enter the ldp context Parameters required to trace a path towards the endpoint of an LDP tunnel
Context	oam lsp-trace ldp
Tree	ldp
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all LDP trace session transmit and receive packet counts and all error counts
Context	oam lsp-trace ldp clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fec prefix *(ipv4-prefix | ipv6-prefix)*

Description	Enter the fec list instance
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)*
Tree	fec
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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prefix *(ipv4-prefix | ipv6-prefix)*

Description The IPv4 or IPv6 prefix associated with the FEC

This is the destination that is being traced.

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS trace message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description Send the LSP trace messages out the specified subinterface

If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically

Context oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* ecmp-interface-select *string*

Tree ecmp-interface-select

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP trace messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS trace messages while incrementing the TTL
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-failures *number*

Description	The maximum number of consecutive MPLS trace requests that do not receive a reply before the trace operation fails for a given TTL
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* maximum-failures *number*
Tree	maximum-failures
Range	1 to 255
Default	5
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-mpls-ttl *number*

Description	The maximum or final TTL value of the MPLS trace messages
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* maximum-mpls-ttl *number*
Tree	maximum-mpls-ttl
Range	1 to 255
Default	30
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-mpls-ttl *number*

Description	The minimum or starting TTL value of the MPLS trace messages
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* minimum-mpls-ttl *number*
Tree	minimum-mpls-ttl
Range	1 to 255
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-count *number*

Description	The maximum number of MPLS trace messages sent per hop
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address \| ipv6-address)*

Description	The source IP address of the UDP/IP MPLS trace message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS trace message before considering that the ping failed
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* timeout *number*
Tree	timeout

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Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-trace ldp fec prefix *(ipv4-prefix | ipv6-prefix)* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rsvp-te

Description	Enter the rsvp-te context Parameters required to trace a path towards the endpoint of an RSVP-TE tunnel
Context	oam lsp-trace rsvp-te
Tree	rsvp-te
Configurable	True
Platforms	mpls-oam-rsvp-te

clear

Description	Clear all RSVP-TE trace session transmit and receive packet counts and all error counts
Context	oam lsp-trace rsvp-te clear
Tree	clear
Configurable	True

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Platforms	mpls-oam-rsvp-te

tunnel tunnel-name *string*

Description	Enter the tunnel list instance
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string*
Tree	tunnel
Configurable	True
Platforms	mpls-oam-rsvp-te

tunnel-name *string*

Description	The RSVP-TE tunnel name This is the tunnel that is being traced.
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string*
String Length	1 to 64
Configurable	True
Platforms	mpls-oam-rsvp-te

destination-ip *(ipv4-address | ipv6-address)*

Description	The destination IP address of the UDP/IP MPLS trace message This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	True
Platforms	mpls-oam-rsvp-te

interval *number*

Description	The time interval between successive MPLS trace messages while incrementing the TTL
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* interval *number*

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Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	mpls-oam-rsvp-te

maximum-failures *number*

Description	The maximum number of consecutive MPLS trace requests that do not receive a reply before the trace operation fails for a given TTL
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* maximum-failures *number*
Tree	maximum-failures
Range	1 to 255
Default	5
Configurable	True
Platforms	mpls-oam-rsvp-te

maximum-mpls-ttl *number*

Description	The maximum or final TTL value of the MPLS trace messages
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* maximum-mpls-ttl *number*
Tree	maximum-mpls-ttl
Range	1 to 255
Default	30
Configurable	True
Platforms	mpls-oam-rsvp-te

minimum-mpls-ttl *number*

Description	The minimum or starting TTL value of the MPLS trace messages
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* minimum-mpls-ttl *number*
Tree	minimum-mpls-ttl
Range	1 to 255
Default	1
Configurable	True

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Platforms	mpls-oam-rsvp-te

path *string*

Description	The P2P path name within the RSVP-TE tunnel When not specified, the active path of the tunnel is used.
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* path *string*
Tree	path
String Length	1 to 64
Configurable	True
Platforms	mpls-oam-rsvp-te

probe-count *number*

Description	The maximum number of MPLS trace messages sent per hop
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Configurable	True
Platforms	mpls-oam-rsvp-te

probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	mpls-oam-rsvp-te

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source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address of the UDP/IP MPLS trace message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	mpls-oam-rsvp-te

timeout *number*

Description	The maximum time the sender waits to receive an MPLS trace message before considering that the ping failed
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	mpls-oam-rsvp-te

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-trace rsvp-te tunnel tunnel-name *string* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	mpls-oam-rsvp-te

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sr-isis

Description Enter the sr-isis context

Parameters required to trace a path towards the endpoint of an SR-ISIS tunnel

Context oam lsp-trace sr-isis

Tree sr-isis

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all SR-ISIS trace session transmit and receive packet counts and all error counts

Context oam lsp-trace sr-isis clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

Description Enter the prefix-sid list instance

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

Tree prefix-sid

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

prefix *(ipv4-prefix | ipv6-prefix)*

Description The IPv4 or IPv6 prefix associated with the SID

This is the destination that is being traced.

Context oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)*

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description	The destination IP address of the UDP/IP MPLS trace message This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* destination-ip *(ipv4-address | ipv6-address)*
Tree	destination-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description	Send the LSP trace messages out the specified subinterface If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* ecmp-interface-select *string*
Tree	ecmp-interface-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP trace messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*

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Tree	ecmp-next-hop-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

igp-instance *number*

Description	ISIS instance id
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* igp-instance *number*
Tree	igp-instance
Range	0 to 255
Default	0
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS trace messages while incrementing the TTL
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-failures *number*

Description	The maximum number of consecutive MPLS trace requests that do not receive a reply before the trace operation fails for a given TTL

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Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* maximum-failures *number*
Tree	maximum-failures
Range	1 to 255
Default	5
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-mpls-ttl *number*

Description	The maximum or final TTL value of the MPLS trace messages
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* maximum-mpls-ttl *number*
Tree	maximum-mpls-ttl
Range	1 to 255
Default	30
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-mpls-ttl *number*

Description	The minimum or starting TTL value of the MPLS trace messages
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* minimum-mpls-ttl *number*
Tree	minimum-mpls-ttl
Range	1 to 255
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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probe-count *number*

Description	The maximum number of MPLS trace messages sent per hop
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address \| ipv6-address)*

Description	The source IP address of the UDP/IP MPLS trace message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS trace message before considering that the ping failed
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-trace sr-isis prefix-sid prefix *(ipv4-prefix | ipv6-prefix)* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

te-policy

Description	Enter the te-policy context Parameters required to trace the endpoint of a TE-Policy tunnel
Context	oam lsp-trace te-policy

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Tree	te-policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-colored

Description	Enter the sr-colored context
Context	oam lsp-trace te-policy sr-colored
Tree	sr-colored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all colored MPLS TE-Policy trace sessions transmit and receive packet counts and all error counts
Context	oam lsp-trace te-policy sr-colored clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description	Enter the policy list instance
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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color *number*

Description Name of Colored Traffic Engineering Policy to be traced. Any programmed candidate-path can be traced.

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description Colored Traffic Engineering Policy, endpoint IP address.

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS trace message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discriminator *number*

Description Candidate path discriminator

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Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* discriminator *number*
Tree	discriminator
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description	Send the LSP trace messages out the specified subinterface If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* ecmp-interface-select *string*
Tree	ecmp-interface-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-next-hop-select *(ipv4-address \| ipv6-address)*

Description	Send the LSP trace messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS trace messages while incrementing the TTL

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Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-failures *number*

Description	The maximum number of consecutive MPLS trace requests that do not receive a reply before the trace operation fails for a given TTL
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* maximum-failures *number*
Tree	maximum-failures
Range	1 to 255
Default	5
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-mpls-ttl *number*

Description	The maximum or final TTL value of the MPLS trace messages
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* maximum-mpls-ttl *number*
Tree	maximum-mpls-ttl
Range	1 to 255
Default	30
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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minimum-mpls-ttl *number*

Description	The minimum or starting TTL value of the MPLS trace messages
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* minimum-mpls-ttl *number*
Tree	minimum-mpls-ttl
Range	1 to 255
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-address *(ipv4-address | ipv6-address)*

Description	IP address Identifier of the node that signalled/instantiated the candidate path on headend
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* originator-address *(ipv4-address | ipv6-address)*
Tree	originator-address
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

originator-asn *number*

Description	Autonomous System (ASN) Identifier of the node that signalled/instantiated the candidate path on headend
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* originator-asn *number*
Tree	originator-asn
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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probe-count *number*

Description The maximum number of MPLS trace messages sent per hop

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* probe-count *number*

Tree probe-count

Range 1 to 10

Default 1

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* probe-size *number*

Tree probe-size

Range 1 to 9500

Default 1

Units bytes

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description Instantiation mechanism used to create the candidate path

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* protocol-origin *keyword*

Tree protocol-origin

Options

- pcep

  PCEP used as signalling mechanism for the candidate path

- bgp

  BGP used as signalling mechanism for the candidate path

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- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description Colored Traffic Engineering Policy active segment-list index

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* segment-list-index *number*

Tree segment-list-index

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description The source IP address of the UDP/IP MPLS trace message

This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.

Context oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* source-ip *(ipv4-address | ipv6-address)*

Tree source-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description The maximum time the sender waits to receive an MPLS trace message before considering that the ping failed

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Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-trace te-policy sr-colored policy color *number* endpoint *(ipv4-address-unicast | ipv6-address-unicast-without-local)* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sr-uncolored

Description	Enter the sr-uncolored context
Context	oam lsp-trace te-policy sr-uncolored
Tree	sr-uncolored
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all uncolored MPLS TE-Policy trace session transmit and receive packet counts and all error counts

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Context	oam lsp-trace te-policy sr-uncolored clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy policy-name *string* protocol-origin *keyword*

Description	Enter the policy list instance
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Tree	policy
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy-name *string*

Description	Name of Uncolored Traffic Engineering Policy which is to be traced. Any available primary or standby or active secondaty candidate-path can be traced.
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

protocol-origin *keyword*

Description	Uncolored Traffic Engrineering Policy, origination source. The method Policy path is computed. This list includes Path Computation Engine, explicitly configured paths, etc.
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword*
Options	• pcep PCEP used as signalling mechanism for the candidate path

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- bgp

  BGP used as signalling mechanism for the candidate path

- local

  Management interface used for candidate path instantiation

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-ip *(ipv4-address | ipv6-address)*

Description The destination IP address of the UDP/IP MPLS trace message

This should be a non-forwardable address in the 127/8 address block (or the 0:0:0:0:0:FFFF:7F00:0/104 IPv6 address block). Varying this address can help to exercise different ECMP paths towards the destination. By default, the destination address is selected randomly from these address blocks.

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* destination-ip *(ipv4-address | ipv6-address)*

Tree destination-ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ecmp-interface-select *string*

Description Send the LSP trace messages out the specified subinterface

If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those subinterfaces specifically

Context oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* ecmp-interface-select *string*

Tree ecmp-interface-select

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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ecmp-next-hop-select *(ipv4-address | ipv6-address)*

Description	Send the LSP trace messages to the specified next-hop If this router has multiple ECMP next-hops to the endpoint of the MPLS tunnel this can select one of those next-hops specifically
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* ecmp-next-hop-select *(ipv4-address | ipv6-address)*
Tree	ecmp-next-hop-select
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interval *number*

Description	The time interval between successive MPLS trace messages while incrementing the TTL
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* interval *number*
Tree	interval
Range	1 to 10
Default	1
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-failures *number*

Description	The maximum number of consecutive MPLS trace requests that do not receive a reply before the trace operation fails for a given TTL
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* maximum-failures *number*
Tree	maximum-failures
Range	1 to 255
Default	5
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-mpls-ttl *number*

Description	The maximum or final TTL value of the MPLS trace messages
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* maximum-mpls-ttl *number*
Tree	maximum-mpls-ttl
Range	1 to 255
Default	30
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

minimum-mpls-ttl *number*

Description	The minimum or starting TTL value of the MPLS trace messages
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* minimum-mpls-ttl *number*
Tree	minimum-mpls-ttl
Range	1 to 255
Default	1
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-count *number*

Description	The maximum number of MPLS trace messages sent per hop
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe-size *number*

Description	The size of the IP packet MPLS trace message. Probe size does not include MPLS headers, if any
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* probe-size *number*
Tree	probe-size
Range	1 to 9500
Default	1
Units	bytes
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

segment-list-index *number*

Description	Uncolored Traffic Engineering Policy active segment-list index
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* segment-list-index *number*
Tree	segment-list-index
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *(ipv4-address | ipv6-address)*

Description	The source IP address of the UDP/IP MPLS trace message This should be a routable address of the router. This will be destination of the MPLS echo reply message sent back to the sender. By default this is the system address of the default network-instance; if the default network-instance does not have system interface then it will be primary address of the lowest numbered loopback subinterface of the default network-instace.

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Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* source-ip *(ipv4-address | ipv6-address)*
Tree	source-ip
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

timeout *number*

Description	The maximum time the sender waits to receive an MPLS trace message before considering that the ping failed
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* timeout *number*
Tree	timeout
Range	1 to 60
Default	3
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

traffic-class *number*

Description	Enter the traffic-class context
Context	oam lsp-trace te-policy sr-uncolored policy policy-name *string* protocol-origin *keyword* traffic-class *number*
Tree	traffic-class
Range	0 to 7
Default	7
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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performance-monitoring

Description	OAM Performance Monitoring
Context	oam performance-monitoring
Tree	performance-monitoring
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ethcfm

Description	OAM-PM ETH-CFM on-demand tools
Context	oam performance-monitoring ethcfm
Tree	ethcfm
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-name *string*

Description	Enter the session list instance
Context	oam performance-monitoring ethcfm session session-name *string*
Tree	session
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-name *string*

Description	Enter the session-name context
Context	oam performance-monitoring ethcfm session session-name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Enter the clear context

Context oam performance-monitoring ethcfm session session-name *string* clear

Tree clear

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

on-demand-action *keyword*

Description Action required to start and stop an OAM-PM on-demand session

Context oam performance-monitoring ethcfm session session-name *string* on-demand-action *keyword*

Tree on-demand-action

Options

- start
- stop

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip

Description OAM-PM IP on-demand tools

Context oam performance-monitoring ip

Tree ip

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session session-name *string*

Description Enter the session list instance

Context oam performance-monitoring ip session session-name *string*

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Tree	session
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-name *string*

Description	Enter the session-name context
Context	oam performance-monitoring ip session session-name *string*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Enter the clear context
Context	oam performance-monitoring ip session session-name *string* clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

on-demand-action *keyword*

Description	Action required to start and stop an OAM-PM on-demand session
Context	oam performance-monitoring ip session session-name *string* on-demand-action *keyword*
Tree	on-demand-action
Options	• start • stop
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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service-activation-testhead

Description	Enable the service-activation-testhead context
Context	oam service-activation-testhead
Tree	service-activation-testhead
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all service activation testhead results
Context	oam service-activation-testhead clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

service-test test-name *string*

Description	List of service tests
Context	oam service-activation-testhead service-test test-name *string*
Tree	service-test
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

test-name *string*

Description	Service activation test name
Context	oam service-activation-testhead service-test test-name *string*
String Length	1 to 64
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all or specific service test run results When run number omitted all run results are cleared.
Context	oam service-activation-testhead service-test test-name *string* clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

run *number*

Description	Clear a specific service test run result
Context	oam service-activation-testhead service-test test-name *string* clear run *number*
Tree	run
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start

Description	Start new run of the service test with given test name
Context	oam service-activation-testhead service-test test-name *string* start
Tree	start
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stop

Description	Stop current run of the service test with given test name

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Context	oam service-activation-testhead service-test test-name *string* stop
Tree	stop
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

twamp

Description	Enable the twamp context
Context	oam twamp
Tree	twamp
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

server

Description	Enter the server context
Context	oam twamp server
Tree	server
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance name *string*

Description	Enter the network-instance list instance
Context	oam twamp server network-instance name *string*
Tree	network-instance
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description	Enter the name context
Context	oam twamp server network-instance name *string*
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear all TWAMP test session transmit and receive packet counts and all error counts
Context	oam twamp server network-instance name *string* clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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17 tools platform

```
platform
+  chassis
   +  reboot
      +  cancel
      +  delay number
      +  force
      +  message string
      +  warm
         +  force
         +  validate
   +  type keyword
+  fabric slot number
   +  locator
      +  disable
      +  enable
         +  duration number
   +  reboot
      +  cancel
      +  delay number
      +  message string
+  fan-tray id number
   +  locator
      +  disable
      +  enable
         +  duration number
+  linecard slot number
   +  locator
      +  disable
      +  enable
         +  duration number
   +  reboot
      +  cancel
      +  delay number
      +  message string
+  redundancy
   +  switchover
   +  synchronize
      +  overlay
      +  system
+  show-fabric-bandwidth
+  trust
   +  attestation
      +  control slot string
         +  log-retrieval
            +  bios
               +  display
                  +  from number
                  +  pcr number
                  +  to number
               +  summary
            +  ima
               +  display
                  +  from number
                  +  pcr number
                  +  to number
               +  summary
```


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```
      +  pcr-quote
         +  nonce binary
         +  pcr-selection string
      +  pcr-read
         +  pcr-selection string
+  disk-encryption
   +  control slot string
      +  activate
+  secure-boot
   +  control slot string
      +  activate
         +  confirmation-code string
         +  serial-number string
      +  revoke
         +  confirmation-code string
         +  serial-number string
      +  update
         +  confirmation-code string
         +  serial-number string
```


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17.1 platform Descriptions

platform

Description	Enter the platform context Top-level container for platform operational commands
Context	platform
Tree	platform
Configurable	True
Platforms	Supported on all platforms

chassis

Description	Enter the chassis context Operational commands related to the chassis
Context	platform chassis
Tree	chassis
Configurable	True
Platforms	Supported on all platforms

reboot

Description	Trigger a reboot of the chassis
Context	platform chassis reboot
Tree	reboot
Configurable	True
Platforms	Supported on all platforms

cancel

Description	Cancels a pending reboot on this component
Context	platform chassis reboot cancel
Tree	cancel
Configurable	True

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Platforms	Supported on all platforms

delay *number*

Description	The amount of time to delay the reboot During this period, the reboot can be cancelled.
Context	platform chassis reboot delay *number*
Tree	delay
Units	seconds
Configurable	True
Platforms	Supported on all platforms

force

Description	Force a reboot of this component, overriding any synchronizations or other activities in progress This option can be dangerous, and may result in a module booting on an older image if used after an image change
Context	platform chassis reboot force
Tree	force
Configurable	True
Platforms	Supported on all platforms

message *string*

Description	A user-defined message to broadcoast to other users of the system
Context	platform chassis reboot message *string*
Tree	message
Configurable	True
Platforms	Supported on all platforms

warm

Description	Perform a warm reboot of the system This option will perform checks against the current configuration, before prompting to confirm the reboot, and then rebooting the system without

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impacting the datapath - if a new image has been configured, this will upgrade the system.

Context platform chassis reboot warm

Tree warm

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

force

Description Force a warm reboot of the system, overriding any validation, synchronizations or other activities in progress

This option can be dangerous, and may result in an outage - but can be used to support a fast reboot of the system.

Context platform chassis reboot warm force

Tree force

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

validate

Description Validate that the system's current configuration and state supports a warm reboot operation

Context platform chassis reboot warm validate

Tree validate

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

type *keyword*

Description Chassis type

Context platform chassis type *keyword*

Tree type

Options

- gen2cp-only

  The chassis will be running in j2cp only mode
- gen3-only

  The chassis will be running in j3 only mode
- gen2cp-gen3-mixed

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The chassis will be running in both j2cp and j3 mode

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

fabric slot *number*

Description Operational commands related to fabric modules

Context platform fabric slot *number*

Tree fabric

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

slot *number*

Description Numeric identifier for the fabric module

Context platform fabric slot *number*

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

locator

Description Enter the locator context

Operational commands for the locator LED

Context platform fabric slot *number* locator

Tree locator

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

disable

Description Deactivates the locator LED for this component

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Context	platform fabric slot *number* locator disable
Tree	disable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

enable

Description	Activate the locator LED for this component
Context	platform fabric slot *number* locator enable
Tree	enable
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

duration *number*

Description	Sets the duration to activate the locator LED, after which it will disable automatically
Context	platform fabric slot *number* locator enable duration *number*
Tree	duration
Range	10 to 3600
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

reboot

Description	Trigger or a reboot of this component
Context	platform fabric slot *number* reboot
Tree	reboot
Configurable	True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

cancel

Description	Cancels a pending reboot on this component
Context	platform fabric slot *number* reboot cancel
Tree	cancel
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

delay *number*

Description	The amount of time to delay the reboot During this period, the reboot can be cancelled.
Context	platform fabric slot *number* reboot delay *number*
Tree	delay
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

message *string*

Description	A user-defined message to broadcoast to other users of the system
Context	platform fabric slot *number* reboot message *string*
Tree	message
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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fan-tray id *number*

Description	Operational commands related to fan modules
Context	platform fan-tray id *number*
Tree	fan-tray
Configurable	True
Platforms	Supported on all platforms except 7215

id *number*

Description	Numeric identifier for the fan module
Context	platform fan-tray id *number*
Configurable	True
Platforms	Supported on all platforms except 7215

locator

Description	Enter the locator context Operational commands for the locator LED
Context	platform fan-tray id *number* locator
Tree	locator
Configurable	True
Platforms	Supported on all platforms except 7215

disable

Description	Deactivates the locator LED for this component
Context	platform fan-tray id *number* locator disable
Tree	disable
Configurable	True
Platforms	Supported on all platforms except 7215

enable

Description	Activate the locator LED for this component
Context	platform fan-tray id *number* locator enable

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Tree	enable
Configurable	True
Platforms	Supported on all platforms except 7215

duration *number*

Description	Sets the duration to activate the locator LED, after which it will disable automatically
Context	platform fan-tray id *number* locator enable duration *number*
Tree	duration
Range	10 to 3600
Units	seconds
Configurable	True
Platforms	Supported on all platforms except 7215

linecard slot *number*

Description	Operational commands related to line cards
Context	platform linecard slot *number*
Tree	linecard
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

slot *number*

Description	Numeric identifier for the line card
Context	platform linecard slot *number*
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

locator

Description	Enter the locator context

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Operational commands for the locator LED

Context platform linecard slot *number* locator

Tree locator

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

disable

Description Deactivates the locator LED for this component

Context platform linecard slot *number* locator disable

Tree disable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

enable

Description Activate the locator LED for this component

Context platform linecard slot *number* locator enable

Tree enable

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

duration *number*

Description Sets the duration to activate the locator LED, after which it will disable automatically

Context platform linecard slot *number* locator enable duration *number*

Tree duration

Range 10 to 3600

Units seconds

Configurable True

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Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

reboot

Description	Trigger or a reboot of this component
Context	platform linecard slot *number* reboot
Tree	reboot
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

cancel

Description	Cancels a pending reboot on this component
Context	platform linecard slot *number* reboot cancel
Tree	cancel
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

delay *number*

Description	The amount of time to delay the reboot During this period, the reboot can be cancelled.
Context	platform linecard slot *number* reboot delay *number*
Tree	delay
Units	seconds
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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message *string*

Description A user-defined message to broadcoast to other users of the system

Context platform linecard slot *number* reboot message *string*

Tree message

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

redundancy

Description Enter the redundancy context

Top-level container for redundancy operational commands

Context platform redundancy

Tree redundancy

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

switchover

Description Trigger a redundancy switchover to the other control module

Context platform redundancy switchover

Tree switchover

Configurable True

Platforms 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

synchronize

Description Enter the synchronize context

Top-level container for manual synchronization activies

Context platform redundancy synchronize

Tree synchronize

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Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

overlay

Description	Force a synchronization of the overlay filesystem between the active control module and the standby This synchronizes all non-excluded directories in the overlay filesystem
Context	platform redundancy synchronize overlay
Tree	overlay
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

system

Description	Force a synchronization of the system-required data between the active control module and the standby This synchronizes images, configuration, checkpoints, and other system-required data
Context	platform redundancy synchronize system
Tree	system
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

show-fabric-bandwidth

Description	Show fabric bandwidth
Context	platform show-fabric-bandwidth
Tree	show-fabric-bandwidth
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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trust

Description Enter the trust context

Operational commands related to Platform Trust

Context platform trust

Tree trust

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

attestation

Description Enter the attestation context

Tools commands input parameter for attestation to retrieve TCG BIOS Logs, IMA Logs

Context platform trust attestation

Tree attestation

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description Operational commands related to log retrieval for control modules

Context platform trust attestation control slot *string*

Tree control

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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slot *string*

Description Slot identifier for the control module

Context platform trust attestation control slot *string*

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

log-retrieval

Description Enter the log-retrieval context

Tools commands to retrieve BIOS and IMA Log

Context platform trust attestation control slot *string* log-retrieval

Tree log-retrieval

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bios

Description TCG BIOS log retrieval commands

Context platform trust attestation control slot *string* log-retrieval bios

Tree bios

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

display

Description Enter the display context

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Context	platform trust attestation control slot *string* log-retrieval bios display
Tree	display
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

from *number*

Description	1-based log display starting index
Context	platform trust attestation control slot *string* log-retrieval bios display from *number*
Tree	from
Default	1
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr *number*

Description	limit display to entries associated with a specific PCR. A value of -1 shows all PCRs
Context	platform trust attestation control slot *string* log-retrieval bios display pcr *number*
Tree	pcr
Default	-1
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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to *number*

Description 1-based log display terminal index. 0 indicates use maximum index in log

Context platform trust attestation control slot *string* log-retrieval bios display to *number*

Tree to

Default 0

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

summary

Description retrieve a summary of the log

Context platform trust attestation control slot *string* log-retrieval bios summary

Tree summary

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ima

Description IMA log retrieval commands

Context platform trust attestation control slot *string* log-retrieval ima

Tree ima

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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display

Description Enter the display context

Context platform trust attestation control slot *string* log-retrieval ima display

Tree display

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

from *number*

Description 1-based log display starting index

Context platform trust attestation control slot *string* log-retrieval ima display from *number*

Tree from

Default 1

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr *number*

Description limit display to entries associated with a specific PCR. A value of -1 shows all PCRs

Context platform trust attestation control slot *string* log-retrieval ima display pcr *number*

Tree pcr

Default -1

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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to *number*

Description 1-based log display terminal index. 0 indicates use maximum index in log

Context platform trust attestation control slot *string* log-retrieval ima display to *number*

Tree to

Default 0

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

summary

Description retrieve a summary of the log

Context platform trust attestation control slot *string* log-retrieval ima summary

Tree summary

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr-quote

Description Enter the pcr-quote context

Tools commands input parameter to retrieve TPM PCR Quote This container includes every information element defined in the reference challenge-response interaction model for remote attestation. Corresponding values are based on TPM 2.0 structure definitions.

Context platform trust attestation control slot *string* pcr-quote

Tree pcr-quote

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-

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gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

nonce *binary*

Description A random number intended to guarantee freshness and for use as part of a replay-detection mechanism Note that a nonce sent into a TPM will typically be 160 or 256 binary digits long (20 or 32 bytes). If fewer binary digits are sent, this nonce object will be padded with leading zeros within Quotes returned from the TPM Additionally if more bytes are sent, the nonce will be trimmed to the most significant binary digits.

Context platform trust attestation control slot *string* pcr-quote nonce *binary*

Tree nonce

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr-selection *string*

Description A tpm2-tools compliant pcr selection string

Context platform trust attestation control slot *string* pcr-quote pcr-selection *string*

Tree pcr-selection

Configurable True

Platforms 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr-read

Description Enter the pcr-read context

Tools commands input parameter to retrieve TPM PCR values Without pcr-selection, the command outputs all PCRs and their hash banks.

Context platform trust attestation control slot *string* pcr-read

Tree pcr-read

Configurable True

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Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pcr-selection *string*

Description	A tpm2-tools compliant pcr selection string
Context	platform trust attestation control slot *string* pcr-read pcr-selection *string*
Tree	pcr-selection
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

disk-encryption

Description	Enter the disk-encryption context Operational commands related to Disk Encryption
Context	platform trust disk-encryption
Tree	disk-encryption
Configurable	True
Platforms	7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description	Operational commands related to Disk Encryption for control modules
Context	platform trust disk-encryption control slot *string*
Tree	control
Configurable	True
Platforms	7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220

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IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *string*

Description Slot identifier for the control module

Context platform trust disk-encryption control slot *string*

Configurable True

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

activate

Description Activate Disk Encryption for a control module

Context platform trust disk-encryption control slot *string* activate

Tree activate

Configurable True

Platforms 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

secure-boot

Description Enter the secure-boot context

Secure Boot operational commands

Context platform trust secure-boot

Tree secure-boot

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250

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IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control slot *string*

Description Operational commands related to Secure Boot for control modules

Context platform trust secure-boot control slot *string*

Tree control

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *string*

Description Slot identifier for the control module

Context platform trust secure-boot control slot *string*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

activate

Description Enter the activate context

Activate Secure Boot

Context platform trust secure-boot control slot *string* activate

Tree activate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-

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512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

confirmation-code *string*

Description Indicates the secure-boot command confirmation-code

Context platform trust secure-boot control slot *string* activate confirmation-code *string*

Tree confirmation-code

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

serial-number *string*

Description Indicates the serial-number of the control module

Context platform trust secure-boot control slot *string* activate serial-number *string*

Tree serial-number

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

revoke

Description Enter the revoke context

Update UEFI Secure Boot forbidden database (dbx), Key Exchange Key (KEK), Platform Key (PK)

Context platform trust secure-boot control slot *string* revoke

Tree revoke

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

confirmation-code *string*

Description	Indicates the secure-boot command confirmation-code
Context	platform trust secure-boot control slot *string* revoke confirmation-code *string*
Tree	confirmation-code
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

serial-number *string*

Description	Indicates the serial-number of the control module
Context	platform trust secure-boot control slot *string* revoke serial-number *string*
Tree	serial-number
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

update

Description	Enter the update context Update UEFI Secure Boot authorized database (db), Key Exchange Key (KEK), Platform Key (PK)
Context	platform trust secure-boot control slot *string* update

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Tree	update
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

confirmation-code *string*

Description	Indicates the secure-boot command confirmation-code
Context	platform trust secure-boot control slot *string* update confirmation-code *string*
Tree	confirmation-code
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

serial-number *string*

Description	Indicates the serial-number of the control module
Context	platform trust secure-boot control slot *string* update serial-number *string*
Tree	serial-number
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2L, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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18 tools qos

```
qos
+  classifiers
   +  multifield-classifier name string
+  interfaces
   +  interface interface-id string
      +  input
         +  policer-policies
            +  clear
            +  policer policer-id number
               +  clear
         +  policer-templates
            +  clear
            +  policer index number
               +  clear
      +  output
         +  queues
            +  clear-statistics
            +  queue queue-name string
               +  queue-statistics
                  +  clear
      +  pfc
         +  clear-statistics
+  packet-trimming
   +  clear-stats
+  policers
   +  policer name string
      +  clear-stats
```


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18.1 qos Descriptions

qos

Description Enter the qos context

Context qos

Tree qos

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

classifiers

Description Enter the classifiers context

Top level enclosing container for qos classifiers operational tools

Context qos classifiers

Tree classifiers

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multifield-classifier name *string*

Description List of multifield-classifier QoS policies

Context qos classifiers multifield-classifier name *string*

Tree multifield-classifier

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D,

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7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of multifield-classifier QoS policy

Context qos classifiers multifield-classifier name *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interfaces

Description Interfaces and subinterfaces with QoS configuration and state

Context qos interfaces

Tree interfaces

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface interface-id *string*

Description List of interfaces and subinterfaces referenced by QoS policies

Context qos interfaces interface interface-id *string*

Tree interface

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-id *string*

Description Identifier for the interface or subinterface

Context qos interfaces interface interface-id *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

input

Description Enter the input context

Context qos interfaces interface interface-id *string* input

Tree input

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-policies

Description Enter the policer-policies context

Context qos interfaces interface interface-id *string* input policer-policies

Tree policer-policies

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Enter the clear context

Context qos interfaces interface interface-id *string* input policer-policies clear

Tree clear

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer policer-id *number*

Description The list of policer instances belonging to the policer-policy definition

Context qos interfaces interface interface-id *string* input policer-policies policer policer-id *number*

Tree policer

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer-id *number*

Description Enter the policer-id context

Context qos interfaces interface interface-id *string* input policer-policies policer policer-id *number*

Range 0 to 31

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Enter the clear context

Context qos interfaces interface interface-id *string* input policer-policies policer policer-id *number* clear

Tree clear

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policer-templates

Description	Enter the policer-templates context
Context	qos interfaces interface interface-id *string* input policer-templates
Tree	policer-templates
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Enter the clear context
Context	qos interfaces interface interface-id *string* input policer-templates clear
Tree	clear
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer index *number*

Description	The list of policer instances belonging to the template definition
Context	qos interfaces interface interface-id *string* input policer-templates policer index *number*
Tree	policer
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description	The policer index
Context	qos interfaces interface interface-id *string* input policer-templates policer index *number*
Range	1 to 32
Configurable	True
Platforms	7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Enter the clear context

Context qos interfaces interface interface-id *string* input policer-templates policer index *number* clear

Tree clear

Configurable True

Platforms 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen3, 7250 IXR-X4, 7250 IXR-X4-OSFP

output

Description Enter the output context

Context qos interfaces interface interface-id *string* output

Tree output

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queues

Description Enter the queues context

Context qos interfaces interface interface-id *string* output queues

Tree queues

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear-statistics

Description Enter the clear-statistics context

Context qos interfaces interface interface-id *string* output queues clear-statistics

Tree clear-statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue queue-name *string*

Description Enter the queue list instance

Context qos interfaces interface interface-id *string* output queues queue queue-name *string*

Tree queue

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

queue-name *string*

Description The queue name

Context qos interfaces interface interface-id *string* output queues queue queue-name *string*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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queue-statistics

Description Enter the queue-statistics context

Context qos interfaces interface interface-id *string* output queues queue queue-name *string* queue-statistics

Tree queue-statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Enter the clear context

Context qos interfaces interface interface-id *string* output queues queue queue-name *string* queue-statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pfc

Description Enter the pfc context

Clearing PFC statisctics on per interface basis

Context qos interfaces interface interface-id *string* pfc

Tree pfc

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3,

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	7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-statistics

Description	Enter the clear-statistics context
Context	qos interfaces interface interface-id *string* pfc clear-statistics
Tree	clear-statistics
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

packet-trimming

Description	Enter the packet-trimming context Clearing chassis-wide packet-trimming statistics
Context	qos packet-trimming
Tree	packet-trimming
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

clear-stats

Description	Clear the packet-trimming statistics of the system
Context	qos packet-trimming clear-stats
Tree	clear-stats
Configurable	True
Platforms	7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512

policers

Description	Enter the policers context

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Context	qos policers
Tree	policers
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policer name *string*

Description	List of global policers
Context	qos policers policer name *string*
Tree	policer
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the global policer.
Context	qos policers policer name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-stats

Description	Clear statistics for this global policer

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Context	qos policers policer name *string* clear-stats
Tree	clear-stats
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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19 tools system

```
system
+  aaa
   +  authentication
      +  session id number
         +  disconnect
         +  stop
      +  user username string
         +  unlock
   +  authorization
      +  authz-policy
         +  clear
         +  probe
            +  rpc string
            +  user string
         +  remove
         +  rotate
            +  created-on number
            +  policy string
            +  version string
+  app-management
   +  application name string
      +  kill
      +  quit
      +  reload
      +  restart
         +  cold
         +  warm
      +  start
      +  statistics
         +  clear
      +  stop
+  boot
   +  fips-140
      +  conditional-test
   +  golden-image
      +  clear
      +  image string
+  cgroup
+  configuration
   +  bootconfig
      +  get
         +  boot-config
            +  dynamic-oc-config
            +  dynamic-vendor-config
            +  oc-config
            +  vendor-config
      +  remove
      +  set
         +  boot-config
            +  dynamic-oc-config string
            +  dynamic-vendor-config string
            +  oc-config string
            +  vendor-config string
   +  candidate name string
      +  clear
   +  checkpoint id (number | checkpoint-name)
```


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```
      +  clear
      +  load
      +  revert
   +  confirmed-accept
      +  persist-id string
   +  confirmed-reject
      +  persist-id string
   +  generate-checkpoint
      +  comment string
      +  name string
   +  pathz-policy
      +  clear
      +  remove
   +  rescue-clear
   +  rescue-save
   +  save
   +  session id number
      +  clear
   +  upgrade
      +  checkpoint id (number | checkpoint-name)
      +  file string
      +  rescue
      +  startup
      +  validation-check keyword
+  dhcp-relay
   +  update-dns-entries
+  dhcp-server
   +  network-instance name string
      +  dhcpv4
         +  statistics
            +  clear
      +  dhcpv6
         +  statistics
            +  clear
+  dot1x
   +  tunnel
      +  clear
+  event-handler
   +  instance name string
      +  reload
      +  statistics
         +  clear
+  grpc-server name string
   +  client id number
      +  disconnect
   +  gnoi
      +  containerz
         +  create-volume
            +  driver keyword
            +  label string
            +  mount-option string
            +  mountpoint string
            +  name string
         +  deploy-image
            +  local-path string
            +  name string
            +  tag string
         +  deploy-plugin
            +  local-path string
            +  name string
            +  tag string
         +  remove-container
            +  force boolean
            +  instance-name string
```


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```
        +  remove-image
           +  force boolean
           +  name string
           +  tag string
        +  remove-plugin
           +  instance-name string
        +  remove-volume
           +  force boolean
           +  name string
        +  start-container
           +  cap-add string
           +  cap-remove string
           +  cmd string
           +  environment string
           +  hard-mem-bytes number
           +  image-name string
           +  instance-name string
           +  label string
           +  location keyword
           +  max-cpu decimal-number
           +  network string
           +  ports string
           +  restart-attempts number
           +  restart-policy keyword
           +  run-as-group string
           +  run-as-user string
           +  soft-mem-bytes number
           +  tag string
           +  volume string
        +  start-plugin
           +  config string
           +  instance-name string
           +  name string
        +  stop-container
           +  force boolean
           +  instance-name string
           +  restart boolean
        +  stop-plugin
           +  instance-name string
     +  healthz
        +  chassis
           +  clear
        +  clear
        +  control
           +  clear
           +  slot string
        +  fabric
           +  clear
           +  slot number
        +  fan-tray
           +  clear
           +  id number
        +  linecard
           +  clear
           +  forwarding-complex keyword
           +  slot number
        +  power-supply
           +  clear
           +  id number
        +  transceiver
           +  clear
           +  interface string
  +  statistics
     +  clear
```


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```
+  l2cp-transparency
   +  efm-oam
      +  clear
   +  elmi
      +  clear
   +  esmc
      +  clear
   +  l2cp-total-statistics
      +  clear
   +  lacp
      +  clear
   +  lldp
      +  clear
   +  ptp
      +  clear
   +  xstp
      +  clear
+  lldp
   +  interface name string
      +  statistics
         +  clear
   +  statistics
      +  clear
+  mirroring
   +  mirroring-instance name string
      +  mirror-destination
         +  statistics
            +  clear
+  netconf-server name string
   +  session session-id number
      +  clear
      +  statistics
         +  clear
   +  statistics
      +  clear
+  network-instance
   +  protocols
      +  mgmt-stp name string
         +  bpdu-guard-error
            +  clear
         +  interface interface-name string
            +  bpdu-guard-error
               +  clear
            +  statistics
               +  clear
         +  statistics
            +  clear
+  packet-trace-base64
   +  interface string
   +  packet binary
+  restore-sd
   +  current
+  snmp
   +  trap trap-name string
      +  force
      +  network-instance string
      +  trigger string
      +  value string
+  sync
   +  gnss
   +  ptp
      +  instance instance-index number
         +  clear-statistics
         +  default-ds
```


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```
            + freq-recovery-engine
               + statistics
                  + clear
            + statistics
               + clear
            + time-recovery-engine
               + statistics
                  + clear
         + inactive-peers
            + clear
         + port-ds-configured-peer port-index number
            + statistics
               + clear
         + port-ds-discovered-peer port-index number
            + statistics
               + clear
         + port-ds-interface port-index number
            + statistics
               + clear
         + port-ds-sync0
            + clear-statistics
            + port sync0-id keyword
               + statistics
                  + clear
         + recovery-engine
            + reset
+ tls
   + generate-csr
      + common-name string
      + country string
      + domain-names string
      + email string
      + encrypt-private-key
      + ip-addresses (ipv4-address | ipv6-address)
      + key-size number
      + key-type keyword
      + locality string
      + organization string
      + organization-unit string
      + spiffe-id string
      + state string
      + type keyword
   + generate-self-signed
      + common-name string
      + country string
      + domain-names string
      + duration number
      + email string
      + ip-addresses (ipv4-address | ipv6-address)
      + key-size number
      + key-type keyword
      + locality string
      + organization string
      + organization-unit string
      + spiffe-id string
      + state string
      + type keyword
   + profile name string
      + certz
         + remove
         + rotate
            + certificate string
            + created-on number
            + crl string
```


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```
            +  key string
            +  trust-anchor string
            +  use-tpm-devid keyword
            +  version string
+  transceiver
   +  firmware
      +  abort-transfer
         +  all-interfaces
         +  interface string
      +  activate
         +  action keyword
         +  all-interfaces
         +  interface string
         +  no-commit
      +  commit-running
         +  all-interfaces
         +  interface string
      +  transfer
         +  all-interfaces
         +  file string
         +  interface string
         +  package string
```


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19.1 system Descriptions

system

Description	Enclosing container for system management.
Context	system
Tree	system
Configurable	True
Platforms	Supported on all platforms

aaa

Description	Top-level container for operational commands related to AAA
Context	system aaa
Tree	aaa
Configurable	True
Platforms	Supported on all platforms

authentication

Description	Enter the authentication context Operational commands related to authentication
Context	system aaa authentication
Tree	authentication
Configurable	True
Platforms	Supported on all platforms

session id *number*

Description	List of active sessions in the system
Context	system aaa authentication session id *number*
Tree	session
Configurable	True
Platforms	Supported on all platforms

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id *number*

Description	System generated session ID
Context	system aaa authentication session id *number*
Configurable	True
Platforms	Supported on all platforms

disconnect

Description	Disconnect the cli session, requesting the cli to terminate
Context	system aaa authentication session id *number* disconnect
Tree	disconnect
Configurable	True
Platforms	Supported on all platforms

stop

Description	Stop the aaa session, the process belonging to the session will be terminated gracefully
Context	system aaa authentication session id *number* stop
Tree	stop
Configurable	True
Platforms	Supported on all platforms

user username *string*

Description	List of local users including admin and linuxadmin
Context	system aaa authentication user username *string*
Tree	user
Configurable	True
Platforms	Supported on all platforms

username *string*

Description	Enter the username context
Context	system aaa authentication user username *string*

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Configurable	True
Platforms	Supported on all platforms

unlock

Description	Unlock the user, This will change its lockout state into false
Context	system aaa authentication user username *string* unlock
Tree	unlock
Configurable	True
Platforms	Supported on all platforms

authorization

Description	Enter the authorization context Operational commands relating to authorization
Context	system aaa authorization
Tree	authorization
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

authz-policy

Description	Top-level container for operational commands relating to Authz gRPC policies
Context	system aaa authorization authz-policy
Tree	authz-policy
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear Authz authorization policy counters

Context system aaa authorization authz-policy clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

probe

Description Perform a test against the current policy

Both a user and rpc must be provided.

Context system aaa authorization authz-policy probe

Tree probe

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rpc *string*

Description The RPC to test access to as the provided user

This follows the gNSI gRPC path format, in that it is /<pkg>.<service>/<rpc>, for example /gnmi.gNMI/Get.

Context system aaa authorization authz-policy probe rpc *string*

Tree rpc

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

user *string*

Description The user to test the current policy with

This can be either a SPIFFE URI or username.

Context system aaa authorization authz-policy probe user *string*

Tree user

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove

Description Remove Authz authorization policy from the system

Since there is only a single system-wide gRPC authorization policy, it will revert its contents to the factory default authorization policy which authorizes any gRPC calls for every user.

Context system aaa authorization authz-policy remove

Tree remove

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rotate

Description Perform a rotation of the Authz gRPC policy

Context system aaa authorization authz-policy rotate

Tree rotate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *number*

Description Sets the created on value for the new policy

Value is the number of seconds since the epoch. For reference the current time from the epoch in most Linux distributions can be retrieved via 'date +%s'. You can also select a specific date via 'date -d "2023-03-31" +%s'.

If no value is provided the systems current date and time is used.

Context system aaa authorization authz-policy rotate created-on *number*

Tree created-on

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

policy *string*

Description Contains the gRPC authorization policy as a JSON-formatted string

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For example: { "name": "Default policy", "allow_rules": [{ "name": "admin-access", "source": { "principals": ["admin"] }, "request": { "paths": ["/*"] } }] }

Context system aaa authorization authz-policy rotate policy *string*

Tree policy

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description A version string to store with the policy

No constraints are applied other than the value must be a string.

If no value is provided no default is used.

Context system aaa authorization authz-policy rotate version *string*

Tree version

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

app-management

Description Operational commands related to app-management

Context system app-management

Tree app-management

Configurable True

Platforms Supported on all platforms

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application name *string*

Description	List of all applications managed by the application manager
Context	system app-management application name *string*
Tree	application
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Unique name of this application instance
Context	system app-management application name *string*
Configurable	True
Platforms	Supported on all platforms

kill

Description	Terminate the application instance ungracefully
Context	system app-management application name *string* kill
Tree	kill
Configurable	True
Platforms	Supported on all platforms

quit

Description	Terminate the application instance, requesting it to core dump
Context	system app-management application name *string* quit
Tree	quit
Configurable	True
Platforms	Supported on all platforms

reload

Description	Reload the configuration of the application instance
Context	system app-management application name *string* reload
Tree	reload

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Configurable	True
Platforms	Supported on all platforms

restart

Description	Restart the application instance The best restart that is supported by the application is used if neither 'warm' or 'cold' is specified. If 'warm' restart is supported that will be used, or 'cold' if 'warm' is unavailable. A 'warm' restart will result in the application leaving its state in IDB during the restart, and recovering it post restart. This restart type results in less disruption to surrounding applications that would depend on the restarting applications state. A 'cold' restart will result in a normal stop/start of the application, including the purging of its state in IDB.
Context	system app-management application name *string* restart
Tree	restart
Configurable	True
Platforms	Supported on all platforms

cold

Description	Perform a cold restart of the application instance
Context	system app-management application name *string* restart cold
Tree	cold
Configurable	True
Platforms	Supported on all platforms

warm

Description	Perform a warm restart of the application instance
Context	system app-management application name *string* restart warm
Tree	warm
Configurable	True
Platforms	Supported on all platforms

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start

Description	Start the application instance
Context	system app-management application name *string* start
Tree	start
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context Top-level grouping of operational commands related to application statistics
Context	system app-management application name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear statistics for this application instance
Context	system app-management application name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

stop

Description	Terminate the application instance gracefully
Context	system app-management application name *string* stop
Tree	stop
Configurable	True
Platforms	Supported on all platforms

boot

Description	Top-level container for operational commands related to booting the system

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Context	system boot
Tree	boot
Configurable	True
Platforms	Supported on all platforms

fips-140

Description	Enter the fips-140 context Operational state and commands related to FIPS 140 cryptographic module validation.
Context	system boot fips-140
Tree	fips-140
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

conditional-test

Description	Execute an on-demand Conditional Self-Test (CST) to verify the current operational health and compliance of the FIPS module. Invoking this command triggers a cryptographic operation (e.g., ECDSA key generation) that forces the module to run the Pairwise Consistency Test (PCT) and the Continuous Random Number Generator Test (CRNGT). The command returns success only if the FIPS provider is loaded, functional, and passes these critical runtime checks.
Context	system boot fips-140 conditional-test
Tree	conditional-test
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

golden-image

Description Enter the golden-image context

Container for operational commands related to golden image

Context system boot golden-image

Tree golden-image

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Unset the golden-image

Context system boot golden-image clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

image *string*

Description Sets the golden image the system uses

This command selects an image to act as a golden-image to which the system reverts when a factory reset operation is requested.

Context system boot golden-image image *string*

Tree image

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String Length	1 to 255
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cgroup

Description	Top-level container for query commands related to cgroup in the system
Context	system cgroup
Tree	cgroup
Configurable	True
Platforms	Supported on all platforms

configuration

Description	Top-level container for operational commands related to the system configuration
Context	system configuration
Tree	configuration
Configurable	True
Platforms	Supported on all platforms

bootconfig

Description	Enter the bootconfig context gNOI BootConfig tools commands
Context	system configuration bootconfig
Tree	bootconfig
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

get

Description Enter the get context

Get BootConfig data

Context system configuration bootconfig get

Tree get

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boot-config

Description The boot config data to get

Context system configuration bootconfig get boot-config

Tree boot-config

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-oc-config

Description The dynamic openconfig specific boot configuration data

Context system configuration bootconfig get boot-config dynamic-oc-config

Tree dynamic-oc-config

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-vendor-config

Description	The dynamic vendor specific boot configuration data
Context	system configuration bootconfig get boot-config dynamic-vendor-config
Tree	dynamic-vendor-config
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oc-config

Description	The openconfig specific boot configuration data
Context	system configuration bootconfig get boot-config oc-config
Tree	oc-config
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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vendor-config

Description The vendor specific boot configuration data

Context system configuration bootconfig get boot-config vendor-config

Tree vendor-config

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove

Description Remove all BootConfig data from the system

Context system configuration bootconfig remove

Tree remove

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

set

Description Enter the set context

Set BootConfig data

Context system configuration bootconfig set

Tree set

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

boot-config

Description The boot config data to set

Context system configuration bootconfig set boot-config

Tree boot-config

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-oc-config *string*

Description The dynamic openconfig specific boot configuration data

Context system configuration bootconfig set boot-config dynamic-oc-config *string*

Tree dynamic-oc-config

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

dynamic-vendor-config *string*

Description The dynamic vendor specific boot configuration data

Context system configuration bootconfig set boot-config dynamic-vendor-config *string*

Tree dynamic-vendor-config

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oc-config *string*

Description	The openconfig specific boot configuration data
Context	system configuration bootconfig set boot-config oc-config *string*
Tree	oc-config
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vendor-config *string*

Description	The vendor specific boot configuration data
Context	system configuration bootconfig set boot-config vendor-config *string*
Tree	vendor-config
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

candidate name *string*

Description	List of configuration candidates currently active

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Context	system configuration candidate name *string*
Tree	candidate
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	The name of the candidate
Context	system configuration candidate name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear the candidate from the system, discarding any changes This results in any users currently in the candidate being dropped back to running mode.
Context	system configuration candidate name *string* clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

checkpoint id *(number | checkpoint-name)*

Description	List of current checkpoints present in the system
Context	system configuration checkpoint id *(number | checkpoint-name)*
Tree	checkpoint
Configurable	True
Platforms	Supported on all platforms

id *(number | checkpoint-name)*

Description	System generated ID, or operator defined name for the checkpoint
Context	system configuration checkpoint id *(number | checkpoint-name)*
Configurable	True

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Platforms	Supported on all platforms

clear

Description	Clear the checkpoint from the system
Context	system configuration checkpoint id *(number | checkpoint-name)* clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

load

Description	Load candidate from saved checkpoint configuration
Context	system configuration checkpoint id *(number | checkpoint-name)* load
Tree	load
Configurable	True
Platforms	Supported on all platforms

revert

Description	Revert running system configuration to the saved checkpoint configuration This functions as a load and commit action.
Context	system configuration checkpoint id *(number | checkpoint-name)* revert
Tree	revert
Configurable	True
Platforms	Supported on all platforms

confirmed-accept

Description	Accepts an in progress commit and stops the confirmation timer
Context	system configuration confirmed-accept
Tree	confirmed-accept
Configurable	True
Platforms	Supported on all platforms

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persist-id *string*

Description	Specifies the persist-id to which the commit confirmed accept applies
Context	system configuration confirmed-accept persist-id *string*
Tree	persist-id
Configurable	True
Platforms	Supported on all platforms

confirmed-reject

Description	Rejects an in progress commit and stops the confirmation timer
Context	system configuration confirmed-reject
Tree	confirmed-reject
Configurable	True
Platforms	Supported on all platforms

persist-id *string*

Description	Specifies the persist-id to which the commit confirmed reject applies
Context	system configuration confirmed-reject persist-id *string*
Tree	persist-id
Configurable	True
Platforms	Supported on all platforms

generate-checkpoint

Description	Generate a checkpoint point based on the current running configuration
Context	system configuration generate-checkpoint
Tree	generate-checkpoint
Configurable	True
Platforms	Supported on all platforms

comment *string*

Description	User provided comment to associate with the checkpoint
Context	system configuration generate-checkpoint comment *string*

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Tree	comment
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	User provided name of the checkpoint
Context	system configuration generate-checkpoint name *string*
Tree	name
Configurable	True
Platforms	Supported on all platforms

pathz-policy

Description	Top-level container for operational commands relating to Pathz gRPC policies
Context	system configuration pathz-policy
Tree	pathz-policy
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear Pathz authorization policy counters
Context	system configuration pathz-policy clear
Tree	clear
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove

Description Remove Pathz authorization policy from the system

Context system configuration pathz-policy remove

Tree remove

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rescue-clear

Description Remove rescue configuration

Context system configuration rescue-clear

Tree rescue-clear

Configurable True

Platforms Supported on all platforms

rescue-save

Description Save current running configuration as rescue configuration - rescue-config.json

Context system configuration rescue-save

Tree rescue-save

Configurable True

Platforms Supported on all platforms

save

Description Save current running configuration as initial (startup) configuration - config.json

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Context	system configuration save
Tree	save
Configurable	True
Platforms	Supported on all platforms

session id *number*

Description	List of configuration sessions currently active
Context	system configuration session id *number*
Tree	session
Configurable	True
Platforms	Supported on all platforms

id *number*

Description	System generated ID for the configuration session
Context	system configuration session id *number*
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear the session from the system, discarding any changes
Context	system configuration session id *number* clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

upgrade

Description	Operational commands related to configuration upgrade
Context	system configuration upgrade
Tree	upgrade
Configurable	True
Platforms	Supported on all platforms

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checkpoint id *(number | checkpoint-name)*

Description	List of configuration checkpoints
Context	system configuration upgrade checkpoint id *(number | checkpoint-name)*
Tree	checkpoint
Configurable	True
Platforms	Supported on all platforms

id *(number | checkpoint-name)*

Description	System generated ID, or operator defined name for the checkpoint
Context	system configuration upgrade checkpoint id *(number | checkpoint-name)*
Configurable	True
Platforms	Supported on all platforms

file *string*

Description	System file path to a json configuration file
Context	system configuration upgrade file *string*
Tree	file
Configurable	True
Platforms	Supported on all platforms

rescue

Description	Rescue configuration
Context	system configuration upgrade rescue
Tree	rescue
Configurable	True
Platforms	Supported on all platforms

startup

Description	Startup (initial) configuration
Context	system configuration upgrade startup
Tree	startup

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Configurable	True
Platforms	Supported on all platforms

validation-check *keyword*

Description	Specifies the kind of validation that will be executed after the content is upgraded If the validation fails the upgraded content will not be persisted.
Context	system configuration upgrade validation-check *keyword*
Tree	validation-check
Default	replace
Options	• skip Skip validation of the upgraded content • merge Validation is done as if the content was used in a load merge operation • replace Validation is done as if the content was used in a full config replace operation
Configurable	True
Platforms	Supported on all platforms

dhcp-relay

Description	Enable the dhcp-relay context
Context	system dhcp-relay
Tree	dhcp-relay
Configurable	True
Platforms	Supported on all platforms

update-dns-entries

Description	Update all dhcp-relay server domain name resolutions A server host entry that cannot be resolved will be unavailable until it can be successfully resolved.
Context	system dhcp-relay update-dns-entries
Tree	update-dns-entries

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Configurable	True
Platforms	Supported on all platforms

dhcp-server

Description	Enable the dhcp-server context
Context	system dhcp-server
Tree	dhcp-server
Configurable	True
Platforms	Supported on all platforms

network-instance name *string*

Description	List of network instances to run a dhcp server in
Context	system dhcp-server network-instance name *string*
Tree	network-instance
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Network Instance
Context	system dhcp-server network-instance name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

dhcpv4

Description	Enter the dhcpv4 context
Context	system dhcp-server network-instance name *string* dhcpv4
Tree	dhcpv4
Configurable	True
Platforms	Supported on all platforms

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statistics

Description	Enter the statistics context
Context	system dhcp-server network-instance name *string* dhcpv4 statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	system dhcp-server network-instance name *string* dhcpv4 statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

dhcpv6

Description	Enter the dhcpv6 context
Context	system dhcp-server network-instance name *string* dhcpv6
Tree	dhcpv6
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context
Context	system dhcp-server network-instance name *string* dhcpv6 statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Enter the clear context
Context	system dhcp-server network-instance name *string* dhcpv6 statistics clear

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Tree	clear
Configurable	True
Platforms	Supported on all platforms

dot1x

Description	Enclosing container for tools system dot1x
Context	system dot1x
Tree	dot1x
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

tunnel

Description	Enclosing container for tools system dot1x tunnel
Context	system dot1x tunnel
Tree	tunnel
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clears the statistics for interface and system level 802.1x.
Context	system dot1x tunnel clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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event-handler

Description	Top-level container for operational commands on event handler and event handling instances
Context	system event-handler
Tree	event-handler
Configurable	True
Platforms	Supported on all platforms

instance name *string*

Description	List of all event handler instances
Context	system event-handler instance name *string*
Tree	instance
Configurable	True
Platforms	Supported on all platforms
Max. Elements	20

name *string*

Description	A user-defined name for this event handler instance
Context	system event-handler instance name *string*
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

reload

Description	Reload the Python script for this event handler instance
Context	system event-handler instance name *string* reload
Tree	reload
Configurable	True
Platforms	Supported on all platforms

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statistics

Description	Enter the statistics context Top-level container for operational commands on event handler statistics
Context	system event-handler instance name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear statistics for this event handler instance
Context	system event-handler instance name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

grpc-server name *string*

Description	List of configured gRPC server instances
Context	system grpc-server name *string*
Tree	grpc-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	User-provided name of this server instance
Context	system grpc-server name *string*
String Length	1 to 255

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Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

client id *number*

Description	List of active gRIBI client sessions
Context	system grpc-server name *string* client id *number*
Tree	client
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description	System generated ID for for the client
Context	system grpc-server name *string* client id *number*
Range	0 to 4294967295
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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disconnect

Description Disconnect this client from the server

Context system grpc-server name *string* client id *number* disconnect

Tree disconnect

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnoi

Description Top-level container for operational commands related to gNOI

Context system grpc-server name *string* gnoi

Tree gnoi

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

containerz

Description Enter the containerz context

gNOI Containerz tools commands

Context system grpc-server name *string* gnoi containerz

Tree containerz

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

create-volume

Description Create a persistent volume for container use

A volume is backed by persistent storage and is expected to exist across device reboots.

Context system grpc-server name *string* gnoi containerz create-volume

Tree create-volume

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

driver *keyword*

Description The volume driver to use

If not specified, defaults to the standard Linux mount driver.

Context system grpc-server name *string* gnoi containerz create-volume driver *keyword*

Tree driver

Options

- local

  Standard mount(8) built-in volume driver

- custom

  Custom volume driver loaded via Plugin RPCs

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *string*

Description Labels to apply to the volume

Each entry should be in KEY=VALUE format. Labels are metadata for the volume.

Context system grpc-server name *string* gnoi containerz create-volume label *string*

Tree label

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mount-option *string*

Description Mount options for the local driver

Options as specified by mount(8).

Context system grpc-server name *string* gnoi containerz create-volume mount-option *string*

Tree mount-option

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mountpoint *string*

Description The mount point for the local driver

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Context system grpc-server name *string* gnoi containerz create-volume mountpoint *string*

Tree mountpoint

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the volume to create

Context system grpc-server name *string* gnoi containerz create-volume name *string*

Tree name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

deploy-image

Description Deploy a container image from a local file path

The image file must be a valid container image archive (e.g. tar). Upon successful deployment, the image is loaded into the container runtime registry.

Context system grpc-server name *string* gnoi containerz deploy-image

Tree deploy-image

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-path *string*

Description The local file path of the container image archive to deploy

Context system grpc-server name *string* gnoi containerz deploy-image local-path *string*

Tree local-path

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name to assign to the container image

If not specified, the name is derived from the image archive.

Context system grpc-server name *string* gnoi containerz deploy-image name *string*

Tree name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag *string*

Description The tag (version) to assign to the container image

If not specified, the tag is derived from the image archive.

Context system grpc-server name *string* gnoi containerz deploy-image tag *string*

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Tree tag

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

deploy-plugin

Description Deploy a plugin from a local file path

The plugin file must be a valid plugin archive (e.g. tar). Upon successful deployment, the plugin is saved until StartPlugin is called.

Context system grpc-server name *string* gnoi containerz deploy-plugin

Tree deploy-plugin

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

local-path *string*

Description The local file path of the plugin archive to deploy

Context system grpc-server name *string* gnoi containerz deploy-plugin local-path *string*

Tree local-path

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name to assign to the plugin

Context system grpc-server name *string* gnoi containerz deploy-plugin name *string*

Tree name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag *string*

Description The tag (version) to assign to the plugin

Context system grpc-server name *string* gnoi containerz deploy-plugin tag *string*

Tree tag

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove-container

Description Remove a container from the system

The container must be stopped unless force is specified.

Context system grpc-server name *string* gnoi containerz remove-container

Tree remove-container

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

force *boolean*

Description	If true, forcibly remove the container even if it is running
Context	system grpc-server name *string* gnoi containerz remove-container force *boolean*
Tree	force
Default	false
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description	The name of the container instance to remove
Context	system grpc-server name *string* gnoi containerz remove-container instance-name *string*
Tree	instance-name
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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remove-image

Description Remove a container image from the system

If the image is associated with a running container, an error is returned.

Context system grpc-server name *string* gnoi containerz remove-image

Tree remove-image

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

force *boolean*

Description If true, forcibly remove the image

Context system grpc-server name *string* gnoi containerz remove-image force *boolean*

Tree force

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the container image to remove

Context system grpc-server name *string* gnoi containerz remove-image name *string*

Tree name

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag *string*

Description	The tag of the container image to remove
Context	system grpc-server name *string* gnoi containerz remove-image tag *string*
Tree	tag
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove-plugin

Description	Remove a plugin from the system
Context	system grpc-server name *string* gnoi containerz remove-plugin
Tree	remove-plugin
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description	The name of the plugin instance to remove

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Context system grpc-server name *string* gnoi containerz remove-plugin instance-name *string*

Tree instance-name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove-volume

Description Remove a volume from the system

Context system grpc-server name *string* gnoi containerz remove-volume

Tree remove-volume

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

force *boolean*

Description If true, forcibly remove the volume

Context system grpc-server name *string* gnoi containerz remove-volume force *boolean*

Tree force

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description The name of the volume to remove

Context system grpc-server name *string* gnoi containerz remove-volume name *string*

Tree name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-container

Description Start a container from a specified image

If the image does not exist on the target, an error is returned. An instance name can optionally be provided, otherwise the target assigns one.

Context system grpc-server name *string* gnoi containerz start-container

Tree start-container

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cap-add *string*

Description Linux capabilities to add to the container

Valid capabilities can be found in capabilities(7).

Context system grpc-server name *string* gnoi containerz start-container cap-add *string*

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Tree	cap-add
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cap-remove *string*

Description	Linux capabilities to remove from the container
Context	system grpc-server name *string* gnoi containerz start-container cap-remove *string*
Tree	cap-remove
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cmd *string*

Description	The command to run inside the container
Context	system grpc-server name *string* gnoi containerz start-container cmd *string*
Tree	cmd
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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environment *string*

Description Environment variables to set in the container

Each entry should be in KEY=VALUE format.

Context system grpc-server name *string* gnoi containerz start-container environment *string*

Tree environment

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hard-mem-bytes *number*

Description Hard memory limit in bytes

If the container exceeds this limit, the container runtime can terminate (OOM kill) the container.

Context system grpc-server name *string* gnoi containerz start-container hard-mem-bytes *number*

Tree hard-mem-bytes

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

image-name *string*

Description The name of the container image to start

Context system grpc-server name *string* gnoi containerz start-container image-name *string*

Tree image-name

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description The name to give the running container instance

If not specified, the target assigns a name.

Context system grpc-server name *string* gnoi containerz start-container instance-name *string*

Tree instance-name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

label *string*

Description Labels to apply to the container

Each entry should be in KEY=VALUE format.

Context system grpc-server name *string* gnoi containerz start-container label *string*

Tree label

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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location *keyword*

Description Defines where the container should run

Context system grpc-server name *string* gnoi containerz start-container location *keyword*

Tree location

Options

- unknown
- primary

  Run on the primary supervisor card
- backup

  Run on the backup supervisor card
- all

  Run on all supervisor cards

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

max-cpu *decimal-number*

Description Maximum amount of CPU the container can use

For example, 0.5 means this container can use a maximum of half a CPU.

Context system grpc-server name *string* gnoi containerz start-container max-cpu *decimal-number*

Tree max-cpu

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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network *string*

Description The network to attach this container to

This could be 'host', 'bridged', or any other network available in the runtime.

Context system grpc-server name *string* gnoi containerz start-container network *string*

Tree network

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ports *string*

Description Host-to-container port mappings

Each entry is host:container, optionally with /tcp or /udp, for example 18080:80 or 18080:80/tcp. Both ports must be in the range 1 to 65535. Only TCP can be published, so /udp is rejected rather than silently mapped to TCP.

Context system grpc-server name *string* gnoi containerz start-container ports *string*

Tree ports

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

restart-attempts *number*

Description Maximum restart attempts when restart-policy is on-failure

Context system grpc-server name *string* gnoi containerz start-container restart-attempts *number*

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Tree restart-attempts

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

restart-policy *keyword*

Description The restart policy to use for this container

Context system grpc-server name *string* gnoi containerz start-container restart-policy *keyword*

Tree restart-policy

Options

- none

  Never restart the container
- always

  Always restart the container unless explicitly stopped, including across runtime restarts
- unless-stopped

  Same as always but not across container runtime restarts
- on-failure

  Restart on failure for a maximum number of attempts

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

run-as-group *string*

Description The group to run the container as

Context system grpc-server name *string* gnoi containerz start-container run-as-group *string*

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Tree	run-as-group
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

run-as-user *string*

Description	The user to run the container as
Context	system grpc-server name *string* gnoi containerz start-container run-as-user *string*
Tree	run-as-user
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

soft-mem-bytes *number*

Description	Soft memory limit in bytes If the system is memory constrained, the container may be OOM killed if it exceeds this limit.
Context	system grpc-server name *string* gnoi containerz start-container soft-mem-bytes *number*
Tree	soft-mem-bytes
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250

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IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tag *string*

Description The tag (version) of the container image to start

Context system grpc-server name *string* gnoi containerz start-container tag *string*

Tree tag

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

volume *string*

Description Volumes to attach to the container

Each entry is name:mount-point with an optional comma-delimited option list, for example myvol:/data or myvol:/data:ro. Mounts are read-write unless ro is given. Only ro and rw are supported; other Docker options are rejected rather than silently ignored. The name must be a volume created via create-volume, not a host path.

Context system grpc-server name *string* gnoi containerz start-container volume *string*

Tree volume

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

start-plugin

Description Start a previously deployed plugin

Context system grpc-server name *string* gnoi containerz start-plugin

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Tree	start-plugin
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

config *string*

Description	The JSON configuration for the plugin
Context	system grpc-server name *string* gnoi containerz start-plugin config *string*
Tree	config
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description	The name to give the running plugin instance
Context	system grpc-server name *string* gnoi containerz start-plugin instance-name *string*
Tree	instance-name
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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name *string*

Description The name of the plugin as specified during the deploy request

Context system grpc-server name *string* gnoi containerz start-plugin name *string*

Tree name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

stop-container

Description Stop a running container

If the container does not exist or is not running, an error is returned.

Context system grpc-server name *string* gnoi containerz stop-container

Tree stop-container

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

force *boolean*

Description If true, forcibly kill the container

Context system grpc-server name *string* gnoi containerz stop-container force *boolean*

Tree force

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3,

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7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description The name of the container instance to stop

Context system grpc-server name *string* gnoi containerz stop-container instance-name *string*

Tree instance-name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

restart *boolean*

Description If true, restart the container immediately after stopping it

Context system grpc-server name *string* gnoi containerz stop-container restart *boolean*

Tree restart

Default false

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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stop-plugin

Description Stop a running plugin

Context system grpc-server name *string* gnoi containerz stop-plugin

Tree stop-plugin

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-name *string*

Description The name of the plugin instance to stop

Context system grpc-server name *string* gnoi containerz stop-plugin instance-name *string*

Tree instance-name

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

healthz

Description Enter the healthz context

gNOI Healthz tools commands

Context system grpc-server name *string* gnoi healthz

Tree healthz

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220

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IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

chassis

Description Enter the chassis context

Chassis component

Context system grpc-server name *string* gnoi healthz chassis

Tree chassis

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz chassis clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear all healthz events

Context system grpc-server name *string* gnoi healthz clear

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Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

control

Description Enter the control context

Control module component

Context system grpc-server name *string* gnoi healthz control

Tree control

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz control clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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slot *string*

Description Slot identifier for the control module

Context system grpc-server name *string* gnoi healthz control slot *string*

Tree slot

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fabric

Description Enter the fabric context

Fabric module component

Context system grpc-server name *string* gnoi healthz fabric

Tree fabric

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz fabric clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description Numeric identifier for the fabric module

Context system grpc-server name *string* gnoi healthz fabric slot *number*

Tree slot

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fan-tray

Description Enter the fan-tray context

Fan component

Context system grpc-server name *string* gnoi healthz fan-tray

Tree fan-tray

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz fan-tray clear

Tree clear

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Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

id *number*

Description Numeric identifier for the fan module

Context system grpc-server name *string* gnoi healthz fan-tray id *number*

Tree id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

linecard

Description Enter the linecard context

Line card component

Clearing a slot component will not clear it's corresponding forwarding-complex components. Similarly, clearing a forwarding-complex component will not clear the slot component.

Context system grpc-server name *string* gnoi healthz linecard

Tree linecard

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz linecard clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

forwarding-complex *keyword*

Description individual ASIC (forwarding-complex) component

Context system grpc-server name *string* gnoi healthz linecard forwarding-complex *keyword*

Tree forwarding-complex

Options

- 0
- 1

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

slot *number*

Description Numeric identifier for the line card

Context system grpc-server name *string* gnoi healthz linecard slot *number*

Tree slot

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

power-supply

Description Enter the power-supply context

Power supply component

Context system grpc-server name *string* gnoi healthz power-supply

Tree power-supply

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz power-supply clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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id *number*

Description Numeric identifier for the power supply module

Context system grpc-server name *string* gnoi healthz power-supply id *number*

Tree id

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transceiver

Description Enter the transceiver context

Transceiver component

Context system grpc-server name *string* gnoi healthz transceiver

Tree transceiver

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear healthz events for this component

Context system grpc-server name *string* gnoi healthz transceiver clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250

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IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *string*

Description Interface name for the transceiver module

Context system grpc-server name *string* gnoi healthz transceiver interface *string*

Tree interface

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

A collection of counters that were collected by the gRPC during the authentication process.

Context system grpc-server name *string* statistics

Tree statistics

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear gNMI network instance authentication counters

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Context	system grpc-server name *string* statistics clear
Tree	clear
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

l2cp-transparency

Description	Enable the l2cp-transparency context
Context	system l2cp-transparency
Tree	l2cp-transparency
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

efm-oam

Description	Enter the efm-oam context
Context	system l2cp-transparency efm-oam
Tree	efm-oam
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

clear

Description	Clears the statistics for the Ethernet in the First Mile OAM protocol
Context	system l2cp-transparency efm-oam clear
Tree	clear
Configurable	True

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Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

elmi

Description	Enter the elmi context
Context	system l2cp-transparency elmi
Tree	elmi
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

clear

Description	Clears the statistics for the Ethernet Local Management Interface protocol
Context	system l2cp-transparency elmi clear
Tree	clear
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

esmc

Description	Enter the esmc context
Context	system l2cp-transparency esmc
Tree	esmc
Configurable	True
Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

clear

Description	Clears the statistics for the Ethernet Synchronization Messaging Channel protocol
Context	system l2cp-transparency esmc clear
Tree	clear
Configurable	True

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Platforms	Supported on 7250 IXR-6/10/6e/10e/X1b/X3b, 7220 IXR-D1/D2/D2L/D3/D3L/D4/D5

l2cp-total-statistics

Description	Enter the l2cp-total-statistics context
Context	system l2cp-transparency l2cp-total-statistics
Tree	l2cp-total-statistics
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clears the global statistics for the L2CP protocols
Context	system l2cp-transparency l2cp-total-statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

lacp

Description	Enter the lacp context
Context	system l2cp-transparency lacp
Tree	lacp
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clears the statistics for Link Aggregation Control Protocol

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Context	system l2cp-transparency lacp clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

lldp

Description	Enter the lldp context
Context	system l2cp-transparency lldp
Tree	lldp
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description	Clears the statistics for Link Layer Discovery Protocol
Context	system l2cp-transparency lldp clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

ptp

Description	Enter the ptp context
Context	system l2cp-transparency ptp
Tree	ptp
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10,

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7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

clear

Description Clears the statistics for the Precision Time Protocol

Context system l2cp-transparency ptp clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

xstp

Description Enter the xstp context

Context system l2cp-transparency xstp

Tree xstp

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

clear

Description Clears the statistics for all the Spanning Tree Protocols

Context system l2cp-transparency xstp clear

Tree clear

Configurable True

Platforms 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H4, 7220 IXR-H4-32D

lldp

Description Top-level container for LLDP tools

Context system lldp

Tree lldp

Configurable True

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Platforms	Supported on all platforms

interface name *string*

Description	List of interfaces on which LLDP is enabled
Context	system lldp interface name *string*
Tree	interface
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Reference to a LLDP Ethernet interface
Context	system lldp interface name *string*
Configurable	True
Platforms	Supported on all platforms

statistics

Description	Enter the statistics context LLDP interface statistics tools commands
Context	system lldp interface name *string* statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear interface LLDP statistics
Context	system lldp interface name *string* statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

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statistics

Description	Enter the statistics context LLDP global statistics tools commands
Context	system lldp statistics
Tree	statistics
Configurable	True
Platforms	Supported on all platforms

clear

Description	Clear global LLDP statistics
Context	system lldp statistics clear
Tree	clear
Configurable	True
Platforms	Supported on all platforms

mirroring

Description	Enable the mirroring context
Context	system mirroring
Tree	mirroring
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mirroring-instance name *string*

Description	Enter the mirroring-instance list instance
Context	system mirroring mirroring-instance name *string*
Tree	mirroring-instance
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250

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IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description A unique name identifying the mirroring instance

Context system mirroring mirroring-instance name *string*

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mirror-destination

Description Enter the mirror-destination context

Mirror destination

Context system mirroring mirroring-instance name *string* mirror-destination

Tree mirror-destination

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system mirroring mirroring-instance name *string* mirror-destination statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears the mirror destination statistics

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Context	system mirroring mirroring-instance name *string* mirror-destination statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D4, 7220 IXR-D5, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

netconf-server name *string*

Description	Enter the netconf-server list instance
Context	system netconf-server name *string*
Tree	netconf-server
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	NETCONF server instance name
Context	system netconf-server name *string*
String Length	1 to 247
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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session session-id *number*

Description Enter the session list instance

Context system netconf-server name *string* session session-id *number*

Tree session

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

session-id *number*

Description Enter the session-id context

Context system netconf-server name *string* session session-id *number*

Range 1 to 4294967295

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear the NETCONF server instance session

Context system netconf-server name *string* session session-id *number* clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system netconf-server name *string* session session-id *number* statistics

Tree statistics

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clear statistics information for the NETCONF session

Context system netconf-server name *string* session session-id *number* statistics clear

Tree clear

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system netconf-server name *string* statistics

Tree statistics

Configurable True

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Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clear statistics information for the NETCONF server instance
Context	system netconf-server name *string* statistics clear
Tree	clear
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

network-instance

Description	Enclosing container for system network-instance
Context	system network-instance
Tree	network-instance
Configurable	True
Platforms	Supported on all platforms

protocols

Description	Enter the protocols context Enclosing container for system network-instance protocols
Context	system network-instance protocols
Tree	protocols
Configurable	True
Platforms	Supported on all platforms

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mgmt-stp name *string*

Description	Management Stp Instance on the system
Context	system network-instance protocols mgmt-stp name *string*
Tree	mgmt-stp
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

name *string*

Description	mgmt-stp instance name
Context	system network-instance protocols mgmt-stp name *string*
String Length	1 to 247
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-error

Description	Enter the bpdu-guard-error context
Context	system network-instance protocols mgmt-stp name *string* bpdu-guard-error
Tree	bpdu-guard-error
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear bpdu guard error on Mgmt-Stp
Context	system network-instance protocols mgmt-stp name *string* bpdu-guard-error clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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interface interface-name *string*

Description	List of Interfaces managed by Mgmt-Stp
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

interface-name *string*

Description	Mgmt-Stp interface name
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string*
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

bpdu-guard-error

Description	Enter the bpdu-guard-error context
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* bpdu-guard-error
Tree	bpdu-guard-error
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear bpdu guard error on Mgmt-Stp interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* bpdu-guard-error clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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statistics

Description	Enter the statistics context
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear all Stp statistics on this Mgmt-Stp Interface
Context	system network-instance protocols mgmt-stp name *string* interface interface-name *string* statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

statistics

Description	Enter the statistics context
Context	system network-instance protocols mgmt-stp name *string* statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

clear

Description	Clear all Stp statistics of this Mgmt-Stp Instance
Context	system network-instance protocols mgmt-stp name *string* statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5

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packet-trace-base64

Description	Tools command to report the forwarding behavior for a specified test packet (packet specified in base64 format)
Context	system packet-trace-base64
Tree	packet-trace-base64
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

interface *string*

Description	References the configured name of the interface in which to inject the probe packet
Context	system packet-trace-base64 interface *string*
Tree	interface
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

packet *binary*

Description	Packet content encoded in base64 string format
Context	system packet-trace-base64 packet *binary*
Tree	packet
Configurable	True
Platforms	7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-X1B, 7250 IXR-X3B

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restore-sd

Description	Top-level container for operational commands related to restoring a SD card
Context	system restore-sd
Tree	restore-sd
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

current

Description	Restore the current active SD card image to the external SD card slot
Context	system restore-sd current
Tree	current
Configurable	True
Platforms	7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

snmp

Description	Enable the snmp context
Context	system snmp
Tree	snmp
Configurable	True
Platforms	Supported on all platforms except TOOLS

trap trap-name *string*

Description	Send simulated SNMP trap
Context	system snmp trap trap-name *string*
Tree	trap
Configurable	True
Platforms	Supported on all platforms except TOOLS

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trap-name *string*

Description Name of the SNMP trap

Context system snmp trap trap-name *string*

Configurable True

Platforms Supported on all platforms except TOOLS

force

Description Force trap to be send even if value doesn't trigger the python-script to generate a trap

Context system snmp trap trap-name *string* force

Tree force

Configurable True

Platforms Supported on all platforms except TOOLS

network-instance *string*

Description The name of the network instance that will be used to send an SNMP trap.

If none is provided, all possible network-instances will receive the trap

Context system snmp trap trap-name *string* network-instance *string*

Tree network-instance

String Length 1 to 255

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trigger *string*

Description Trigger that will generate the trap with a simulated on-change notification.

Uses xpath format

Context system snmp trap trap-name *string* trigger *string*

Tree trigger

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Configurable	True
Platforms	Supported on all platforms except TOOLS

value *string*

Description	Value that will be used in the simulated on-change notification
Context	system snmp trap trap-name *string* value *string*
Tree	value
Configurable	True
Platforms	Supported on all platforms except TOOLS

sync

Description	Top-level grouping for sync operational commands
Context	system sync
Tree	sync
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

gnss

Description	Enter the gnss context Grouping for GNSS operational commands
Context	system sync gnss
Tree	gnss
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ptp

Description	Enter the ptp context Grouping for ptp operational commands
Context	system sync ptp

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Tree	ptp
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance instance-index *number*

Description	Grouping for PTP instance operational commands
Context	system sync ptp instance instance-index *number*
Tree	instance
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

instance-index *number*

Description	Enter the instance-index context
Context	system sync ptp instance instance-index *number*
Range	1 to 10
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-statistics

Description	Clears all PTP statistics for PTP
Context	system sync ptp instance instance-index *number* clear-statistics
Tree	clear-statistics
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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default-ds

Description Enter the default-ds context

The default data set of the PTP Instance In the context of the protocol, this data set is required for an Ordinary Clock or Boundary Clock

Context system sync ptp instance instance-index *number* default-ds

Tree default-ds

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

freq-recovery-engine

Description Enter the freq-recovery-engine context

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine

Tree freq-recovery-engine

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears all PTP statistics for PTP freq recovery engine

Context system sync ptp instance instance-index *number* default-ds freq-recovery-engine statistics clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	system sync ptp instance instance-index *number* default-ds statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clears PTP statistics and event counters in the default-ds
Context	system sync ptp instance instance-index *number* default-ds statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

time-recovery-engine

Description	Enter the time-recovery-engine context
Context	system sync ptp instance instance-index *number* default-ds time-recovery-engine
Tree	time-recovery-engine
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Context system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears all PTP statistics for PTP time recovery engine

Context system sync ptp instance instance-index *number* default-ds time-recovery-engine statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

inactive-peers

Description Enter the inactive-peers context

Context system sync ptp instance instance-index *number* inactive-peers

Tree inactive-peers

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears information related to inactive PTP peers

Context system sync ptp instance instance-index *number* inactive-peers clear

Tree clear

Configurable True

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-configured-peer port-index *number*

Description	Grouping for PTP Port DS for configured IP peers operational commands
Context	system sync ptp instance instance-index *number* port-ds-configured-peer port-index *number*
Tree	port-ds-configured-peer
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-index *number*

Description	Enter the port-index context
Context	system sync ptp instance instance-index *number* port-ds-configured-peer port-index *number*
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	system sync ptp instance instance-index *number* port-ds-configured-peer port-index *number* statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clears all PTP statistics for this PTP Port DS

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Context	system sync ptp instance instance-index *number* port-ds-configured-peer port-index *number* statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-discovered-peer port-index *number*

Description	Grouping for PTP Port DS for discovered IP peers operational commands
Context	system sync ptp instance instance-index *number* port-ds-discovered-peer port-index *number*
Tree	port-ds-discovered-peer
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-index *number*

Description	Enter the port-index context
Context	system sync ptp instance instance-index *number* port-ds-discovered-peer port-index *number*
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	system sync ptp instance instance-index *number* port-ds-discovered-peer port-index *number* statistics
Tree	statistics
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear

Description Clears all PTP statistics for this PTP Port DS

Context system sync ptp instance instance-index *number* port-ds-discovered-peer port-index *number* statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-interface port-index *number*

Description Grouping for PTP Port DS for interfaces operational commands

Context system sync ptp instance instance-index *number* port-ds-interface port-index *number*

Tree port-ds-interface

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-index *number*

Description Enter the port-index context

Context system sync ptp instance instance-index *number* port-ds-interface port-index *number*

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system sync ptp instance instance-index *number* port-ds-interface port-index *number* statistics

Tree statistics

Configurable True

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Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description	Clears all PTP statistics for this PTP Port DS
Context	system sync ptp instance instance-index *number* port-ds-interface port-index *number* statistics clear
Tree	clear
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port-ds-sync0

Description	Enter the port-ds-sync0 context
Context	system sync ptp instance instance-index *number* port-ds-sync0
Tree	port-ds-sync0
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear-statistics

Description	Clears all sync0 statistics
Context	system sync ptp instance instance-index *number* port-ds-sync0 clear-statistics
Tree	clear-statistics
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

port sync0-id *keyword*

Description	Grouping for PTP Port DS for sync0 operational commands

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Context system sync ptp instance instance-index *number* port-ds-sync0 port sync0-id *keyword*

Tree port

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sync0-id *keyword*

Description Enter the sync0-id context

Context system sync ptp instance instance-index *number* port-ds-sync0 port sync0-id *keyword*

Options

- sync0-a

  This may be the sole sync0 port or sync0 port on CPM A in routers with redundant CPMs

- sync0-b

  Specific states of sync0 port on CPM B in routers with redundant CPMs

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context system sync ptp instance instance-index *number* port-ds-sync0 port sync0-id *keyword* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Clears all PTP statistics for this sync0

Context system sync ptp instance instance-index *number* port-ds-sync0 port sync0-id *keyword* statistics clear

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Tree	clear
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

recovery-engine

Description	Enter the recovery-engine context
Context	system sync ptp instance instance-index *number* recovery-engine
Tree	recovery-engine
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

reset

Description	Resets the PTP clock algorithm and restarts the recovery process
Context	system sync ptp instance instance-index *number* recovery-engine reset
Tree	reset
Configurable	True
Platforms	7220 IXR-D5, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tls

Description	Top-level container for operational commands related to TLS
Context	system tls
Tree	tls
Configurable	True
Platforms	Supported on all platforms

generate-csr

Description	Generates a certificate signing request and key pair

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Fields for the certificate are taken from OpenSSL defaults, with the exception of the common name, which is taken from the system host name and domain name combination.

Context system tls generate-csr

Tree generate-csr

Configurable True

Platforms Supported on all platforms

common-name *string*

Description The common name to use for the certificate signing request

By default the common name is set to the system host name and domain name combination.

Context system tls generate-csr common-name *string*

Tree common-name

String Length 1 to 64

Configurable True

Platforms Supported on all platforms

country *string*

Description The country name to use for the certificate signing request

The expected format is two characters long, e.g. 'US'.

Context system tls generate-csr country *string*

Tree country

String Length 2

Default US

Configurable True

Platforms Supported on all platforms

domain-names *string*

Description Domain names to add to the SubjectAlternativeName field within the certificate signing request

These names are encoeded as DNS:<name> within the certificate SAN.

Context system tls generate-csr domain-names *string*

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Tree	domain-names
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

email *string*

Description	The email address to use for the certificate signing request
Context	system tls generate-csr email *string*
Tree	email
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

encrypt-private-key

Description	Display the generated private key in encrypted form instead of plaintext PEM When set, the command output shows the encrypted private key (for example '$aes1$...') rather than the '-----BEGIN PRIVATE KEY-----' PEM block.
Context	system tls generate-csr encrypt-private-key
Tree	encrypt-private-key
Configurable	True
Platforms	7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ip-addresses *(ipv4-address | ipv6-address)*

Description	IP addresses to add to the SubjectAlternativeName field within the certificate signing request These addresses are encoded as IP:<ip> within the certificate SAN.

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Context	system tls generate-csr ip-addresses *(ipv4-address | ipv6-address)*
Tree	ip-addresses
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

key-size *number*

Description	The size of the private key to generate for the certificate signing request
Context	system tls generate-csr key-size *number*
Tree	key-size
Range	1024 to 16384
Default	4096
Configurable	True
Platforms	Supported on all platforms

key-type *keyword*

Description	The type of private key to generate for the certificate signing request
Context	system tls generate-csr key-type *keyword*
Tree	key-type
Default	rsa
Options	• rsa
Configurable	True
Platforms	Supported on all platforms

locality *string*

Description	The city or locality to use for the certificate signing request
Context	system tls generate-csr locality *string*
Tree	locality
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

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organization *string*

Description	The organization to use for the certificate signing request
Context	system tls generate-csr organization *string*
Tree	organization
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

organization-unit *string*

Description	The organization unit to use for the certificate signing request
Context	system tls generate-csr organization-unit *string*
Tree	organization-unit
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

spiffe-id *string*

Description	A SPIFFE ID to use for the certificate signing request This ID is in URI form, including the leading 'spiffe://', for example 'spiffe://srlinux.dev/sa/user'.
Context	system tls generate-csr spiffe-id *string*
Tree	spiffe-id
Configurable	True
Platforms	Supported on all platforms

state *string*

Description	The state or province to use for the certificate signing request
Context	system tls generate-csr state *string*
Tree	state
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

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type *keyword*

Description	The type of certificate to use for the certificate signing request
Context	system tls generate-csr type *keyword*
Tree	type
Default	x509
Options	• x509
Configurable	True
Platforms	Supported on all platforms

generate-self-signed

Description	Generates a self signed certificate and key pair Fields for the self signed certificate are taken from OpenSSL defaults, with the exception of the common name, which is taken from the system host name and domain name combination.
Context	system tls generate-self-signed
Tree	generate-self-signed
Configurable	True
Platforms	Supported on all platforms

common-name *string*

Description	The common name to use for the certificate signing request By default the common name is set to the system host name and domain name combination.
Context	system tls generate-self-signed common-name *string*
Tree	common-name
String Length	1 to 64
Configurable	True
Platforms	Supported on all platforms

country *string*

Description	The country name to use for the certificate signing request The expected format is two characters long, e.g. 'US'.

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Context	system tls generate-self-signed country *string*
Tree	country
String Length	2
Default	US
Configurable	True
Platforms	Supported on all platforms

domain-names *string*

Description	Domain names to add to the SubjectAlternativeName field within the certificate signing request These names are encoeded as DNS:<name> within the certificate SAN.
Context	system tls generate-self-signed domain-names *string*
Tree	domain-names
String Length	1 to 253
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

duration *number*

Description	The time in which the certificate is valid
Context	system tls generate-self-signed duration *number*
Tree	duration
Range	1 to 3650
Default	365
Units	days
Configurable	True
Platforms	Supported on all platforms

email *string*

Description	The email address to use for the certificate signing request
Context	system tls generate-self-signed email *string*
Tree	email
String Length	1 to 255

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Configurable	True
Platforms	Supported on all platforms

ip-addresses *(ipv4-address | ipv6-address)*

Description	IP addresses to add to the SubjectAlternativeName field within the certificate signing request These addresses are encoded as IP:<ip> within the certificate SAN.
Context	system tls generate-self-signed ip-addresses *(ipv4-address | ipv6-address)*
Tree	ip-addresses
Configurable	True
Platforms	Supported on all platforms
Max. Elements	32

key-size *number*

Description	The size of the private key to generate for the certificate signing request
Context	system tls generate-self-signed key-size *number*
Tree	key-size
Range	1024 to 16384
Default	4096
Configurable	True
Platforms	Supported on all platforms

key-type *keyword*

Description	The type of private key to generate for the certificate signing request
Context	system tls generate-self-signed key-type *keyword*
Tree	key-type
Default	rsa
Options	• rsa
Configurable	True
Platforms	Supported on all platforms

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locality *string*

Description	The city or locality to use for the certificate signing request
Context	system tls generate-self-signed locality *string*
Tree	locality
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

organization *string*

Description	The organization to use for the certificate signing request
Context	system tls generate-self-signed organization *string*
Tree	organization
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

organization-unit *string*

Description	The organization unit to use for the certificate signing request
Context	system tls generate-self-signed organization-unit *string*
Tree	organization-unit
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

spiffe-id *string*

Description	A SPIFFE ID to use for the certificate signing request This ID is in URI form, including the leading 'spiffe://', for example 'spiffe://srlinux.dev/sa/user'.
Context	system tls generate-self-signed spiffe-id *string*
Tree	spiffe-id
Configurable	True
Platforms	Supported on all platforms

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state *string*

Description	The state or province to use for the certificate signing request
Context	system tls generate-self-signed state *string*
Tree	state
String Length	1 to 255
Configurable	True
Platforms	Supported on all platforms

type *keyword*

Description	The type of certificate to use for the certificate signing request
Context	system tls generate-self-signed type *keyword*
Tree	type
Default	x509
Options	• x509
Configurable	True
Platforms	Supported on all platforms

profile name *string*

Description	Enter the profile list instance
Context	system tls profile name *string*
Tree	profile
Configurable	True
Platforms	Supported on all platforms

name *string*

Description	Name of the TLS profile
Context	system tls profile name *string*
String Length	1 to 231
Configurable	True
Platforms	Supported on all platforms

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certz

Description Enter the certz context

Information relating to the active certificates and bundles as provided via Certz

State is provided by the gNSI Certz service, and can be changed using the gNSI.Certz.Rotate RPC

Context system tls profile name *string* certz

Tree certz

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remove

Description Remove Certz SSL profile from the system.

Context system tls profile name *string* certz remove

Tree remove

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rotate

Description Perform a rotation of a certificate, trust anchor, or certificate revocation list within Certz SSL profile.

Context system tls profile name *string* certz rotate

Tree rotate

Configurable True

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Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

certificate *string*

Description Base64 encoded certificate to use with the provided or existing private key

This includes the '-----BEGIN CERTIFICATE-----' and '-----END CERTIFICATE-----' header and footer

Context system tls profile name *string* certz rotate certificate *string*

Tree certificate

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

created-on *number*

Description Sets the created on value for the new policy

Value is the number of seconds since the epoch. For reference the current time from the epoch in most Linux distributions can be retrieved via 'date +%s'. You can also select a specific date via 'date -d "2023-03-31" +%s'.

If no value is provided the systems current date and time is used.

Context system tls profile name *string* certz rotate created-on *number*

Tree created-on

Units seconds

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

crl *string*

Description Base64 encoded bundle of certificates to add to the certificate revocation list

Context system tls profile name *string* certz rotate crl *string*

Tree crl

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key *string*

Description Base64 encoded key to use with the certificate

This includes the '-----BEGIN PRIVATE KEY-----', and '-----END PRIVATE KEY-----' header and footer

The value is hashed, and only the hashed value is kept

Context system tls profile name *string* certz rotate key *string*

Tree key

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

trust-anchor *string*

Description Base64 encoded certificate chain to use as a trust anchor

Context system tls profile name *string* certz rotate trust-anchor *string*

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Tree trust-anchor

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

use-tpm-devid *keyword*

Description Defines if the TLS profile key and certificate uses the TPM idevid or oidevid

Context system tls profile name *string* certz rotate use-tpm-devid *keyword*

Tree use-tpm-devid

Options

- idevid

  The TPM iDevID key and certificate is used

- oidevid

  The TPM iDevID key and oIDevID certificate is used

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

version *string*

Description A version string to store with the policy

No constraints are applied other than the value must be a string.

If no value is provided no default is used.

Context system tls profile name *string* certz rotate version *string*

Tree version

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-

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18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

transceiver

Description Tools related to transceivers

Context system transceiver

Tree transceiver

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

firmware

Description Enter the firmware context

Tools related to transceiver firmware

Context system transceiver firmware

Tree firmware

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

abort-transfer

Description Abort the current transfer operation active on one or more transceivers

Context system transceiver firmware abort-transfer

Tree abort-transfer

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

all-interfaces

Description Enter the all-interfaces context

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Context	system transceiver firmware abort-transfer all-interfaces
Tree	all-interfaces
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

interface *string*

Description	The list of interfaces with transceivers to be included in the operation
Context	system transceiver firmware abort-transfer interface *string*
Tree	interface
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3
Min. Elements	1

activate

Description	Activate firmware
Context	system transceiver firmware activate
Tree	activate
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

action *keyword*

Description	Specifies the specific activation action to be performed
Context	system transceiver firmware activate action *keyword*
Tree	action
Options	• switch-to-inactive-bank • switch-hitless-to-inactive-bank • restart-active-bank

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- restart-hitless-active-bank

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

all-interfaces

Description Enter the all-interfaces context

Context system transceiver firmware activate all-interfaces

Tree all-interfaces

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

interface *string*

Description The list of interfaces with transceivers to be included in the operation

Context system transceiver firmware activate interface *string*

Tree interface

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

Min. Elements 1

no-commit

Description If specified, committed bank is not changed

Context system transceiver firmware activate no-commit

Tree no-commit

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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commit-running

Description	Commit the active bank on one or more transceivers
Context	system transceiver firmware commit-running
Tree	commit-running
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

all-interfaces

Description	Enter the all-interfaces context
Context	system transceiver firmware commit-running all-interfaces
Tree	all-interfaces
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

interface *string*

Description	The list of interfaces with transceivers to be included in the operation
Context	system transceiver firmware commit-running interface *string*
Tree	interface
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3
Min. Elements	1

transfer

Description	Initiate a transfer of a new image into one or more transceivers Only one transfer operation can be active at a time.
Context	system transceiver firmware transfer

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Tree	transfer
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

all-interfaces

Description	Enter the all-interfaces context
Context	system transceiver firmware transfer all-interfaces
Tree	all-interfaces
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

file *string*

Description	File containing an image This is used for a traditional distribution of images as binary files containing only the entire block of data to be transferred to the transceiver.
Context	system transceiver firmware transfer file *string*
Tree	file
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

interface *string*

Description	The list of interfaces with transceivers to be included in the operation
Context	system transceiver firmware transfer interface *string*
Tree	interface
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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Min. Elements	1

package *string*

Description	File containing a package of images including metadata headers This is used for packages as defined by OIF XXX. It is expected to be .tgz format that needs extraction. The package by target transceiver to select the newest image for that transceiver based on vendor and vendor part number.
Context	system transceiver firmware transfer package *string*
Tree	package
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3

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20 tools tunnel

```
tunnel
+  vxlan-tunnel
   +  statistics
      +  clear
   +  vtep address (ipv4-address | ipv6-address)
      +  statistics
         +  clear
```


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20.1 tunnel Descriptions

tunnel

Description Enter the tunnel context

Top-level container for the tunnel table.

Context tunnel

Tree tunnel

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vxlan-tunnel

Description Enter the vxlan-tunnel context

Context tunnel vxlan-tunnel

Tree vxlan-tunnel

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context tunnel vxlan-tunnel statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-

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6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Enter the clear context

Context tunnel vxlan-tunnel statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vtep address *(ipv4-address | ipv6-address)*

Description IP address that identifies the remote VXLAN Termination Endpoint (VTEP)

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)*

Tree vtep

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description IP address that identifies the remote VXLAN Termination Endpoint (VTEP)

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)*

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

clear

Description Enter the clear context

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics clear

Tree clear

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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21 transport-security

```
transport-security
+  macsec
   +  exclude-protocol name keyword
      +  interface reference
   +  interface name string
      +  admin-state keyword
      +  exclude-mac destination-mac string
      +  interface-ref
         +  aggregate-id reference
         +  interface reference
         +  subinterface number
      +  mka
         -  encryption-offset keyword
         +  fallback-key-chain reference
         -  hello-interval number
         +  key-chain reference
         -  key-number number
         -  key-server boolean
         -  key-server-priority number
         -  latest-sak-an number
         -  latest-sak-ki binary
         -  message-count number
         -  mka-participant ca-key-name string
            -  cak-name string
            -  keychain-key-index number
            -  keychain-name string
            -  latest-sak-lpn number
            -  member-id binary
            -  message-count number
            -  mka-peer member-id binary
               -  key-server-priority number
               -  lowest-acceptable-pn number
               -  message-number number
               -  mka-peer-mid binary
               -  mka-replay-count number
               -  sci binary
               -  type keyword
            -  previous-sak-lpn number
            -  principal boolean
            -  type keyword
         +  mka-policy reference
         -  oper-cipher keyword
         -  oper-state keyword
         -  outbound-sci binary
         -  previous-sak-an number
         -  previous-sak-ki binary
         -  statistics
            -  cak-info-missing number
            -  ckn-not-found number
            -  in-cak-mkpdu number
            -  in-mkpdu number
            -  in-mkpdu-errors
               -  bad-peer-errors number
               -  icv-verification-errors number
               -  peer-list-errors number
               -  validation-errors number
```


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```
            - in-sak-mkpdu number
            - invalid-ckn-length number
            - key-number-invalid number
            - liveness-check-fail number
            - max-peers-set-zero number
            - new-live-peer number
            - out-cak-mkpdu number
            - out-mkpdu number
            - out-mkpdu-errors
               - pdu-invalid-number number
               - pdu-not-quad-size number
               - pdu-too-big number
               - pdu-too-small number
            - out-sak-mkpdu number
            - parameter-not-quad-size number
            - parameter-size-invalid number
            - peer-same-mi number
            - peers-removed number
            - rx-sak-install-fail number
            - sak-cipher-mismatch-errors number
            - sak-decryption-errors number
            - sak-encryption-errors number
            - sak-generated number
            - sak-generation-errors number
            - sak-hash-errors number
            - sak-no-key-server number
            - sak-non-live-peer number
            - tx-sak-install-fail number
            - unsupported-algorithm-agility number
      - oper-state keyword
      + replay-protection
         + admin-state keyword
         + window-size number
      + rx-must-be-macsec-enabled boolean
      - scsa-rx sci-rx string
         - delayed-packets number
         - late-packets number
         - not-using-sa-packets number
         - sc-invalid number
         - sc-octets-invalid number
         - sc-octets-valid number
         - sc-sak-installed-count number
         - sc-valid number
         - sci-rx-identifier string
         - security-association rx-sa-an number
            - discarded-active number
            - discarded-inactive number
            - sa-invalid number
            - sa-sak-installed boolean
            - sa-valid number
         - unchecked-packets number
      - scsa-tx sci-tx string
         - sc-auth-only number
         - sc-encrypted number
         - sc-octets-auth-only number
         - sc-octets-encrypted number
         - sc-sak-installed-count number
         - sci-tx-identifier string
         - security-association tx-sa-an number
            - sa-auth-only number
            - sa-encrypted number
            - sa-sak-installed boolean
      - statistics
         - rx-badtag-pkts number
```


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```
        -  rx-nosci-pkts number
        -  rx-not-valid-drop-count number
        -  rx-overrun-packets number
        -  rx-unknownsci-pkts number
        -  rx-untagged-pkts number
        -  tx-too-long-packets number
        -  tx-untagged-pkts number
  +  mka
     +  policy name string
        +  admin-state keyword
        +  clear-tag-mode keyword
        +  confidentiality-offset keyword
        +  eapol-destination-address string
        +  encrypt boolean
        +  hello-interval number
        +  key-server-priority number
        +  macsec-cipher-suite keyword
        +  maximum-number-of-peers number
        +  sak-rekey-on-live-peer-loss boolean
     -  statistics
        -  in-mkpdu-errors
           -  bad-peer-errors number
           -  icv-verification-errors number
           -  peer-list-errors number
           -  validation-errors number
        -  out-mkpdu-errors
           -  pdu-invalid-number number
           -  pdu-not-quad-size number
           -  pdu-too-big number
           -  pdu-too-small number
        -  rx-sak-install-fail number
        -  sak-cipher-mismatch-errors number
        -  sak-decryption-errors number
        -  sak-encryption-errors number
        -  sak-generation-errors number
        -  sak-hash-errors number
        -  tx-sak-install-fail number
```


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21.1 transport-security Descriptions

transport-security

Description	Enter the transport-security context Enclosing container for transport security
Context	transport-security
Tree	transport-security
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

macsec

Description	Enter the macsec context
Context	transport-security macsec
Tree	macsec
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-protocol name *keyword*

Description	List of protocols to be excluded from MACsec
Context	transport-security macsec exclude-protocol name *keyword*
Tree	exclude-protocol
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *keyword*

Description	Name of the protocol to be excluded from MACsec
Context	transport-security macsec exclude-protocol name *keyword*

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Options

- lacp
  LACP protocol
- lldp
  LLDP protocol
- cdp
  Cisco discovery protocol
- eapol-start
  EAP over LAN start packets
- efm-oam
  Ethernet in first mile protocol
- eth-cfm
  Connectivity fault management protocol
- ptp
  Precision Time Protocol
- ubfd
  Micro BFD protocol

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface *reference*

Description Interfaces on which this protocol is excluded from MACsec

Context transport-security macsec exclude-protocol name *keyword* interface *reference*

Tree interface

Reference interface name *string*

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface name *string*

Description List of interfaces on which MACsec is enabled / available When interface is configured the entire interface is protected via macsec.

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Context	transport-security macsec interface name *string*
Tree	interface
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	Name of the interface being created for the MACSec
Context	transport-security macsec interface name *string*
String Length	1 to 255
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description	Enable MACsec on an interface
Context	transport-security macsec interface name *string* admin-state *keyword*
Tree	admin-state
Default	disable
Options	• enable • disable
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

exclude-mac destination-mac *string*

Description	list of destination macs to be excluded from the macsec encryption
Context	transport-security macsec interface name *string* exclude-mac destination-mac *string*
Tree	exclude-mac
Configurable	True

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-mac *string*

Description exclude this destination mac from encryption

Context transport-security macsec interface name *string* exclude-mac destination-mac *string*

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

interface-ref

Description Enter the interface-ref context

Context transport-security macsec interface name *string* interface-ref

Tree interface-ref

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

aggregate-id *reference*

Description Reference to the aggregate-id configured on the interface

Context transport-security macsec interface name *string* interface-ref aggregate-id *reference*

Tree aggregate-id

Reference interface name *string* ethernet aggregate-id *reference*

Configurable True

Platforms 7215 IXS-A1, 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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interface *reference*

Description	Reference to a base interface, for example a port
Context	transport-security macsec interface name *string* interface-ref interface *reference*
Tree	interface
Reference	interface name *string*
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

subinterface *number*

Description	Reference to a subinterface This requires the base interface to be specified using the interface leaf in this container.
Context	transport-security macsec interface name *string* interface-ref subinterface *number*
Tree	subinterface
Range	0 to 9999
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka

Description	Enter the mka context Enclosing container for the MKA interface
Context	transport-security macsec interface name *string* mka
Tree	mka
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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encryption-offset *keyword*

Description Indicates the operational encryption offset used for the datapath PDUs when all parties in the CA have the SAK. This value is specified by the key server

Context transport-security macsec interface name *string* mka encryption-offset *keyword*

Tree encryption-offset

Options

- 0-bytes

  No octets are sent unencrypted
- 30-bytes

  30 octects are sent unencrypted
- 50-bytes

  50 octects are sent unencrypted

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

fallback-key-chain *reference*

Description Enter the fallback-key-chain context

Context transport-security macsec interface name *string* mka fallback-key-chain *reference*

Tree fallback-key-chain

Reference system authentication keychain name *string*

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description MKA hello interval, the intervals are 1000 ms up to 6000 ms

Context transport-security macsec interface name *string* mka hello-interval *number*

Tree hello-interval

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-chain *reference*

Description	Enter the key-chain context
Context	transport-security macsec interface name *string* mka key-chain *reference*
Tree	key-chain
Reference	system authentication keychain name *string*
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-number *number*

Description	Indicates the number of the currently assigned CAK When a new CAK is generated, this number is incremented.
Context	transport-security macsec interface name *string* mka key-number *number*
Tree	key-number
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-server *boolean*

Description	Indicates whether this server is the highest priority server in the peer group
Context	transport-security macsec interface name *string* mka key-server *boolean*
Tree	key-server
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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key-server-priority *number*

Description	Indicates the priority of local server
Context	transport-security macsec interface name *string* mka key-server-priority *number*
Tree	key-server-priority
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

latest-sak-an *number*

Description	Indicates the Association Number (AN) of the latest Secure Association Key (SAK) This number is concatenated with an SCI to identify a Secure Association (SA).
Context	transport-security macsec interface name *string* mka latest-sak-an *number*
Tree	latest-sak-an
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

latest-sak-ki *binary*

Description	Indicates the Key Identifier (KI) of the latest SAK This number is derived from the MI of the key server and the key number.
Context	transport-security macsec interface name *string* mka latest-sak-ki *binary*
Tree	latest-sak-ki
String Length	16
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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message-count *number*

Description	Indicates the current count of MKA messages that is attached to MKA PDUs
Context	transport-security macsec interface name *string* mka message-count *number*
Tree	message-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka-participant ca-key-name *string*

Description	List of MKA participants.
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string*
Tree	mka-participant
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ca-key-name *string*

Description	MACsec CKN, a hexadecimal name is only valid
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string*
String Length	2 to 64
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cak-name *string*

Description	MACsec CKN, a hexadecimal name is only valid
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* cak-name *string*

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Tree	cak-name
String Length	2 to 64
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keychain-key-index *number*

Description	Active key's keychain key index number
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* keychain-key-index *number*
Tree	keychain-key-index
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

keychain-name *string*

Description	Keychain name being used by this participant
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* keychain-name *string*
Tree	keychain-name
String Length	1 to 255
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

latest-sak-lpn *number*

Description	Indicates Lowest Acceptable Packet Number of the latest Security Association Key (SAK)
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* latest-sak-lpn *number*
Tree	latest-sak-lpn
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

member-id *binary*

Description	Specifies the MI of the MKA participant
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* member-id *binary*
Tree	member-id
String Length	12
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

message-count *number*

Description	Indicates the current count of MKA messages that is attached to MKA PDUs
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* message-count *number*
Tree	message-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka-peer member-id *binary*

Description	List of MKA peers.
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary*
Tree	mka-peer
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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member-id *binary*

Description	Specifies the MI of the peer entry
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary*
String Length	12
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-server-priority *number*

Description	Indicates the priority of this MKA peer
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* key-server-priority *number*
Tree	key-server-priority
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

lowest-acceptable-pn *number*

Description	Indicates the lowest acceptable packet number of this MKA peer
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* lowest-acceptable-pn *number*
Tree	lowest-acceptable-pn
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

message-number *number*

Description	Indicates the latest message Number of the peer entry
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* message-number *number*
Tree	message-number

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka-peer-mid *binary*

Description	Specifies the MI of the peer entry
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* mka-peer-mid *binary*
Tree	mka-peer-mid
String Length	12
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka-replay-count *number*

Description	Indicates the number of replayed MKPDUs received from this MKA peer Counts the MKPDUs from this peer that were dropped because the message number did not increase relative to the last MKPDU accepted from the peer, which may indicate a replayed or stale MKPDU.
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* mka-replay-count *number*
Tree	mka-replay-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sci *binary*

Description	Indicates the SCI information of this peer list entry
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* sci *binary*
Tree	sci
String Length	8

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description	Indicates the type of the peer entry
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* mka-peer member-id *binary* type *keyword*
Tree	type
Options	• live-peer-list These peer entry is in the Live Peer List • potential-peer-list These peer entry is in the Potential Peer List
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

previous-sak-lpn *number*

Description	Indicates Lowest Acceptable Packet Number of the previous Security Association Key (SAK)
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* previous-sak-lpn *number*
Tree	previous-sak-lpn
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

principal *boolean*

Description	Indicates whether this MKA participant is principal
Context	transport-security macsec interface name *string* mka mka-participant ca-key-name *string* principal *boolean*
Tree	principal
Configurable	False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Indicates the type of the MKA participant based on keychain it is using

Context transport-security macsec interface name *string* mka mka-participant ca-key-name *string* type *keyword*

Tree type

Options

- primary

  This MKA participant is using primary keychain

- fallback

  This MKA participant is using fallback keychain

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka-policy *reference*

Description Apply MKA policy on the interface

Context transport-security macsec interface name *string* mka mka-policy *reference*

Tree mka-policy

Reference transport-security macsec mka policy name *string*

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-cipher *keyword*

Description Indicates the operational encryption algorithm used for datapath PDUs when all parties in the CA have the SAK. This value is specified by the key server

Context transport-security macsec interface name *string* mka oper-cipher *keyword*

Tree oper-cipher

Options

- gcm-aes-128

  gcm-aes-128 Cipher Suite

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- gcm-aes-256

  gcm-aes-256 Cipher Suite
- gcm-aes-xpn-128

  gcm-aes-xpn-128 Cipher Suite
- gcm-aes-xpn-256

  gcm-aes-xpn-256 Cipher Suite

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the mka instance

Context transport-security macsec interface name *string* mka oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

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Component or process is in a degraded state

- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.

- waiting

  Component or process is currently waiting

  This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

outbound-sci *binary*

Description Indicates the Secure Channel Identifier (SCI) information for transmitting MACsec frames

Context transport-security macsec interface name *string* mka outbound-sci *binary*

Tree outbound-sci

String Length 8

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

previous-sak-an *number*

Description Indicates the Association Number (AN) of the previous Security Association key (SAK)

This number is concatenated with an SCI to identify an Secure Association SA.

Context transport-security macsec interface name *string* mka previous-sak-an *number*

Tree previous-sak-an

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

previous-sak-ki *binary*

Description	Indicates the Key Identifier (KI) of the previous SAK This number is derived from the Member Identifier (MI) of the key server and the key number.
Context	transport-security macsec interface name *string* mka previous-sak-ki *binary*
Tree	previous-sak-ki
String Length	16
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context MKA interface counters
Context	transport-security macsec interface name *string* mka statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

cak-info-missing *number*

Description	Indicates the number of times internal CAK data is not available for the generation of the SAK.
Context	transport-security macsec interface name *string* mka statistics cak-info-missing *number*
Tree	cak-info-missing
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ckn-not-found *number*

Description	Indicates the number of MKPDUs received with a CKN that does not match the CA configured for the port.
Context	transport-security macsec interface name *string* mka statistics ckn-not-found *number*
Tree	ckn-not-found
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-cak-mkpdu *number*

Description	Validated MKPDU received CAK count
Context	transport-security macsec interface name *string* mka statistics in-cak-mkpdu *number*
Tree	in-cak-mkpdu
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-mkpdu *number*

Description	Validated MKPDU received count
Context	transport-security macsec interface name *string* mka statistics in-mkpdu *number*
Tree	in-mkpdu
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-mkpdu-errors

Description	Enter the in-mkpdu-errors context
Context	transport-security macsec interface name *string* mka statistics in-mkpdu-errors
Tree	in-mkpdu-errors
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-peer-errors *number*

Description	MKPDU RX bad peer message number error count
Context	transport-security macsec interface name *string* mka statistics in-mkpdu-errors bad-peer-errors *number*
Tree	bad-peer-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icv-verification-errors *number*

Description	MKPDU RX ICV verification error count
Context	transport-security macsec interface name *string* mka statistics in-mkpdu-errors icv-verification-errors *number*
Tree	icv-verification-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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peer-list-errors *number*

Description	MKPDU RX non-recent peer list Message Number error count
Context	transport-security macsec interface name *string* mka statistics in-mkpdu-errors peer-list-errors *number*
Tree	peer-list-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

validation-errors *number*

Description	MKPDU RX validation error count
Context	transport-security macsec interface name *string* mka statistics in-mkpdu-errors validation-errors *number*
Tree	validation-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-sak-mkpdu *number*

Description	Validated and installed MKPDU received SAK count
Context	transport-security macsec interface name *string* mka statistics in-sak-mkpdu *number*
Tree	in-sak-mkpdu
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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invalid-ckn-length *number*

Description	Indicates the number of MKPDUs received which contain a CAK name that exceeds the maximum CAK name length.
Context	transport-security macsec interface name *string* mka statistics invalid-ckn-length *number*
Tree	invalid-ckn-length
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

key-number-invalid *number*

Description	Indicates the number of SAKs received with an invalid Key Number
Context	transport-security macsec interface name *string* mka statistics key-number-invalid *number*
Tree	key-number-invalid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

liveness-check-fail *number*

Description	Indicates the number of MKPDUs received which contain an MN that is not acceptably recent.
Context	transport-security macsec interface name *string* mka statistics liveness-check-fail *number*
Tree	liveness-check-fail
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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max-peers-set-zero *number*

Description	Indicates the number of SecY SAK installations that have failed Failed due to the max peer entry being set to 0.
Context	transport-security macsec interface name *string* mka statistics max-peers-set-zero *number*
Tree	max-peers-set-zero
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

new-live-peer *number*

Description	Indicates the number of validated peers that have been added to the live peer list.
Context	transport-security macsec interface name *string* mka statistics new-live-peer *number*
Tree	new-live-peer
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-cak-mkpdu *number*

Description	MKPDU CAK sent count
Context	transport-security macsec interface name *string* mka statistics out-cak-mkpdu *number*
Tree	out-cak-mkpdu
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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out-mkpdu *number*

Description	MKPDU sent count
Context	transport-security macsec interface name *string* mka statistics out-mkpdu *number*
Tree	out-mkpdu
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-mkpdu-errors

Description	Enter the out-mkpdu-errors context
Context	transport-security macsec interface name *string* mka statistics out-mkpdu-errors
Tree	out-mkpdu-errors
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-invalid-number *number*

Description	MKPDU TX error count
Context	transport-security macsec interface name *string* mka statistics out-mkpdu-errors pdu-invalid-number *number*
Tree	pdu-invalid-number
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-not-quad-size *number*

Description	MKPDU TX error count

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Context	transport-security macsec interface name *string* mka statistics out-mkpdu-errors pdu-not-quad-size *number*
Tree	pdu-not-quad-size
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-too-big *number*

Description	MKPDU TX error count
Context	transport-security macsec interface name *string* mka statistics out-mkpdu-errors pdu-too-big *number*
Tree	pdu-too-big
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-too-small *number*

Description	MKPDU TX error count
Context	transport-security macsec interface name *string* mka statistics out-mkpdu-errors pdu-too-small *number*
Tree	pdu-too-small
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-sak-mkpdu *number*

Description	Validated and installed MKPDU transmit SAK count
Context	transport-security macsec interface name *string* mka statistics out-sak-mkpdu *number*
Tree	out-sak-mkpdu

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parameter-not-quad-size *number*

Description	Indicates the number of MKPDUs received which contain a parameter set that is not a multiple of 4 octets.
Context	transport-security macsec interface name *string* mka statistics parameter-not-quad-size *number*
Tree	parameter-not-quad-size
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

parameter-size-invalid *number*

Description	Indicates the number of MKPDUs received which contain a parameter set body length that exceeds the remaining length of the MKPDU.
Context	transport-security macsec interface name *string* mka statistics parameter-size-invalid *number*
Tree	parameter-size-invalid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-same-mi *number*

Description	Indicates the number of MKPDUs received which contain a peerlist with an MI entry which conflicts with the local MI.
Context	transport-security macsec interface name *string* mka statistics peer-same-mi *number*
Tree	peer-same-mi

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peers-removed *number*

Description	Indicates the number of peers removed from the live/potential peer Peer removed due to not receiving an MKPDU within the MKA Live Time (6.0 sec).
Context	transport-security macsec interface name *string* mka statistics peers-removed *number*
Tree	peers-removed
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-sak-install-fail *number*

Description	Rx SAK install fail count
Context	transport-security macsec interface name *string* mka statistics rx-sak-install-fail *number*
Tree	rx-sak-install-fail
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-cipher-mismatch-errors *number*

Description	MKA error SAK cipher mismatch count
Context	transport-security macsec interface name *string* mka statistics sak-cipher-mismatch-errors *number*
Tree	sak-cipher-mismatch-errors
Default	0

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-decryption-errors *number*

Description	MKA error SAK decryption/unwrap count
Context	transport-security macsec interface name *string* mka statistics sak-decryption-errors *number*
Tree	sak-decryption-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-encryption-errors *number*

Description	MKA error SAK encryption/wrap count
Context	transport-security macsec interface name *string* mka statistics sak-encryption-errors *number*
Tree	sak-encryption-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-generated *number*

Description	Indicates the number of SAKs generated by this MKA instance
Context	transport-security macsec interface name *string* mka statistics sak-generated *number*
Tree	sak-generated
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-generation-errors *number*

Description	MKA error SAK generation count
Context	transport-security macsec interface name *string* mka statistics sak-generation-errors *number*
Tree	sak-generation-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-hash-errors *number*

Description	MKA error Hash Key generation count
Context	transport-security macsec interface name *string* mka statistics sak-hash-errors *number*
Tree	sak-hash-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-no-key-server *number*

Description	Indicates the number of SAKs received from a none key server MKA participant
Context	transport-security macsec interface name *string* mka statistics sak-no-key-server *number*
Tree	sak-no-key-server
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-non-live-peer *number*

Description	Indicates the number of SAKs received from a peer that is not a member of the Live Peers List.
Context	transport-security macsec interface name *string* mka statistics sak-non-live-peer *number*
Tree	sak-non-live-peer
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-sak-install-fail *number*

Description	Tx SAK install fail count
Context	transport-security macsec interface name *string* mka statistics tx-sak-install-fail *number*
Tree	tx-sak-install-fail
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unsupported-algorithm-agility *number*

Description	Indicates the number of MKPDUs received which contain an unsupported Algorithm Agility value.
Context	transport-security macsec interface name *string* mka statistics unsupported-algorithm-agility *number*
Tree	unsupported-algorithm-agility
Default	0
Configurable	False

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Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description Indicates the operational state of macsec on this subinterface

Context transport-security macsec interface name *string* oper-state *keyword*

Tree oper-state

Options

- up

  Component or process is operational
- down

  Component or process is not operational
- empty

  Component slot is empty
- downloading

  Component is downloading image into memory
- booting

  Component is booting downloaded image
- starting

  Component image operational, application processes starting
- failed

  Component or process has failed
- synchronizing

  Component is currently being synchronized
- upgrading

  Component is currently being upgraded
- low-power

  Component is offline due to insufficient system power
- degraded

  Component or process is in a degraded state
- warm-reboot

  Component or process is currently warm rebooting

  This state is set during a warm reboot immediately following initiation of the reboot, continuing after startup until the system has completed audit. In this state the system will not accept configuration changes.
- waiting

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Component or process is currently waiting

This state can be set by event handler when the reinvoke-with-delay action is used, and indicates that the event handler is waiting for the provided delay before reinvoking the instance.

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

replay-protection

Description Enter the replay-protection context

Context transport-security macsec interface name *string* replay-protection

Tree replay-protection

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable MACsec on an interface

Context transport-security macsec interface name *string* replay-protection admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

window-size *number*

Description MACsec window size, as defined by the number of out-of-order frames that are accepted.

A value of 0 means that frames are accepted only in the correct order.

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Context	transport-security macsec interface name *string* replay-protection window-size *number*
Tree	window-size
Default	0
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-must-be-macsec-enabled *boolean*

Description	when true; only accept macsec with sectag packets, If false accept a mix of macsec and clear text packets
Context	transport-security macsec interface name *string* rx-must-be-macsec-enabled *boolean*
Tree	rx-must-be-macsec-enabled
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scsa-rx sci-rx *string*

Description	RX Secure Channel and Secure Association Statistics
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string*
Tree	scsa-rx
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sci-rx *string*

Description	RX Secure Channel and Secure Association Statistics
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string*
String Length	23
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

delayed-packets *number*

Description	Indicates the number of received packets with the condition that the PN of the packets is lower than the lower bound of the replay protection PN
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* delayed-packets *number*
Tree	delayed-packets
Default	0
Units	packets
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

late-packets *number*

Description	Indicates the number of received packets that have been discarded due to replay window protection on this SC
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* late-packets *number*
Tree	late-packets
Default	0
Units	packets
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-using-sa-packets *number*

Description	Indicates the summation of counter /macsec/rx-sa/not-using-sa-packets Information for all the SAs which belong to this SC.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* not-using-sa-packets *number*
Tree	not-using-sa-packets

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Default	0
Units	packets
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-invalid *number*

Description	Invalid Secure Channel RX Packets counter This counter reflects the number of invalid received packets in a secure channel. Indicates the summation of counter /macsec/rx-sa/not-valid-packets information for all the SAs which belong to this SC.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* sc-invalid *number*
Tree	sc-invalid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-octets-invalid *number*

Description	Invalid Secure Channel RX Packets counter This counter reflects the number of invalid received packets in a secure channel.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* sc-octets-invalid *number*
Tree	sc-octets-invalid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-octets-valid *number*

Description	Valid Secure Channel RX Packets counter

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This counter reflects the number of valid received packets in a secure channel. Indicates the number of octets of plain text recovered from received packets that were integrity protected and encrypted.

Context transport-security macsec interface name *string* scsa-rx sci-rx *string* sc-octets-valid *number*

Tree sc-octets-valid

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-sak-installed-count *number*

Description Secure Channel installed RX SAKs count

This counter reflects the number of SAKs that are installed in RX security channel.

Context transport-security macsec interface name *string* scsa-rx sci-rx *string* sc-sak-installed-count *number*

Tree sc-sak-installed-count

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-valid *number*

Description Valid Secure Channel RX Packets counter

This counter reflects the number of valid received packets in a secure channel. Indicates the summation of counter /macsec/rx-sa/ok-packets information for all the SAs which belong to this SC.

Context transport-security macsec interface name *string* scsa-rx sci-rx *string* sc-valid *number*

Tree sc-valid

Default 0

Configurable False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sci-rx-identifier *string*

Description	Secure Channel Identifier Every Receive Channel is uniquely identified using this field.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* sci-rx-identifier *string*
Tree	sci-rx-identifier
String Length	23
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-association rx-sa-an *number*

Description	Enter the receiving-sa list instance
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number*
Tree	security-association
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-sa-an *number*

Description	Indicates the AN for identifying the receiving SA
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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discarded-active *number*

Description	Indicates the number of not valid packets that have been discarded on this active SA.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number* discarded-active *number*
Tree	discarded-active
Default	0
Units	packets
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

discarded-inactive *number*

Description	Indicates the number of received packets that have been discarded on this SA which is not currently in use.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number* discarded-inactive *number*
Tree	discarded-inactive
Default	0
Units	packets
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-invalid *number*

Description	Invalid Secure Association RX Packets counter This counter reflects the number of integrity check fails for received packets in a secure association.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number* sa-invalid *number*
Tree	sa-invalid
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-sak-installed *boolean*

Description	Secure Association (SA) RX sak installed This counter reflects if the RX SAK is installed for this SA.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number* sa-sak-installed *boolean*
Tree	sa-sak-installed
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-valid *number*

Description	Secure Association Valid RX Packets counter This counter reflects the number of packets in a secure association that passed integrity check.
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* security-association rx-sa-an *number* sa-valid *number*
Tree	sa-valid
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unchecked-packets *number*

Description	Indicates the number of packets that have failed the integrity check on this SC
Context	transport-security macsec interface name *string* scsa-rx sci-rx *string* unchecked-packets *number*
Tree	unchecked-packets
Default	0
Units	packets

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

scsa-tx sci-tx *string*

Description	TX Secure Channel and Secure Association Statistics
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string*
Tree	scsa-tx
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sci-tx *string*

Description	TX Secure Channel and Secure Association Statistics
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string*
String Length	23
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-auth-only *number*

Description	Secure Channel Authenticated only TX Packets counter This counter reflects the number of authenticated only transmitted packets in a secure channel.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sc-auth-only *number*
Tree	sc-auth-only
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sc-encrypted *number*

Description	Secure Channel Encrypted TX Packets counter This counter reflects the number of encrypted and authenticated transmitted packets in a secure channel.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sc-encrypted *number*
Tree	sc-encrypted
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-octets-auth-only *number*

Description	Secure Channel Authenticated only TX octets counter This counter reflects the number of authenticated only transmitted octets in a secure channel.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sc-octets-auth-only *number*
Tree	sc-octets-auth-only
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-octets-encrypted *number*

Description	Secure Channel Encrypted TX octets counter This counter reflects the number of encrypted and authenticated transmitted octets in a secure channel.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sc-octets-encrypted *number*
Tree	sc-octets-encrypted
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sc-sak-installed-count *number*

Description	Secure Channel installed TX SAKs count This counter reflects the number of SAKs that are installed in TX security channel.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sc-sak-installed-count *number*
Tree	sc-sak-installed-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sci-tx-identifier *string*

Description	Secure Channel Identifier Every Transmit Channel is uniquely identified using this field.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* sci-tx-identifier *string*
Tree	sci-tx-identifier
String Length	23
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

security-association tx-sa-an *number*

Description	Enter the transmitting-sa list instance
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* security-association tx-sa-an *number*
Tree	security-association
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-sa-an *number*

Description	Indicates the AN for identifying the transmitting SA
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* security-association tx-sa-an *number*
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-auth-only *number*

Description	Secure Association Authenticated only TX Packets counter This counter reflects the number of authenticated only, transmitted packets in a secure association.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* security-association tx-sa-an *number* sa-auth-only *number*
Tree	sa-auth-only
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-encrypted *number*

Description	Secure Association (SA) encrypted Packets counter This counter reflects the number of encrypted and authenticated transmitted packets in a secure association.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* security-association tx-sa-an *number* sa-encrypted *number*
Tree	sa-encrypted
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sa-sak-installed *boolean*

Description	Secure Association (SA) TX sak installed This counter reflects if the TX SAK is installed for this SA.
Context	transport-security macsec interface name *string* scsa-tx sci-tx *string* security-association tx-sa-an *number* sa-sak-installed *boolean*
Tree	sa-sak-installed
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context MACsec interface counters
Context	transport-security macsec interface name *string* statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-badtag-pkts *number*

Description	MACsec interface level Receive Bad Tag Packets counter This counter will increment if MACsec is enabled on interface and incoming packet has incorrect MACsec tag.
Context	transport-security macsec interface name *string* statistics rx-badtag-pkts *number*
Tree	rx-badtag-pkts
Default	0
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-nosci-pkts *number*

Description	MACsec interface level Receive No SCI Packets counter This counter will increment if MACsec is enabled on interface and incoming packet does not have SCI field in MACsec tag.
Context	transport-security macsec interface name *string* statistics rx-nosci-pkts *number*
Tree	rx-nosci-pkts
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-not-valid-drop-count *number*

Description	This counter reflects the number of not valid received packets dropped
Context	transport-security macsec interface name *string* statistics rx-not-valid-drop-count *number*
Tree	rx-not-valid-drop-count
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-overrun-packets *number*

Description	Indicates the number of packets discarded because the number of received packets exceeded the cryptographic performance capabilities
Context	transport-security macsec interface name *string* statistics rx-overrun-packets *number*
Tree	rx-overrun-packets
Default	0
Units	packets

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Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-unknownsci-pkts *number*

Description	MACsec interface level Receive Unknown SCI Packets counter This counter will increment if MACsec is enabled on the interface and SCI present in the MACsec tag of the incoming packet does not match any SCI present in ingress SCI table.
Context	transport-security macsec interface name *string* statistics rx-unknownsci-pkts *number*
Tree	rx-unknownsci-pkts
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-untagged-pkts *number*

Description	MACsec interface level Receive untagged Packets counter This counter will increment if MACsec is enabled on interface and the incoming packet does not have MACsec tag.
Context	transport-security macsec interface name *string* statistics rx-untagged-pkts *number*
Tree	rx-untagged-pkts
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-too-long-packets *number*

Description	Indicates the number of transmitted packets discarded because of long lenght

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The packet length is greater than the Maximum Transmission Unit (MTU) of the Ethernet physical interface.

Context transport-security macsec interface name *string* statistics tx-too-long-packets *number*

Tree tx-too-long-packets

Default 0

Units packets

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-untagged-pkts *number*

Description MACsec interface level Transmit untagged Packets counter

This counter will increment if MACsec is enabled on interface and the outgoing packet is not tagged with MACsec header.

Context transport-security macsec interface name *string* statistics tx-untagged-pkts *number*

Tree tx-untagged-pkts

Default 0

Configurable False

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mka

Description Enter the mka context

The MKA

Context transport-security macsec mka

Tree mka

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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policy name *string*

Description List of MKA policies

Context transport-security macsec mka policy name *string*

Tree policy

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description Name of the MKA policy

Context transport-security macsec mka policy name *string*

String Length 1 to 255

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

admin-state *keyword*

Description Enable mka policy

While MKA policy is enabled no policy parameters can be configured or modified.

Context transport-security macsec mka policy name *string* admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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clear-tag-mode *keyword*

Description Specifies the number of tags that will be in clear infront of the sectag

Context transport-security macsec mka policy name *string* clear-tag-mode *keyword*

Tree clear-tag-mode

Default no-tag

Options

- no-tag

  Do not put any tags into clear

- single-tag

  Put 4 bytes after the MAC header into clear

- double-tag

  Put 8 bytes after the MAC header into clear

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

confidentiality-offset *keyword*

Description The confidentiality offset specifies a number of octets in an Ethernet frame that are sent in unencrypted and in plain-text

Context transport-security macsec mka policy name *string* confidentiality-offset *keyword*

Tree confidentiality-offset

Default 0-bytes

Options

- 0-bytes

  No octets are sent unencrypted

- 30-bytes

  30 octects are sent unencrypted

- 50-bytes

  50 octects are sent unencrypted

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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eapol-destination-address *string*

Description	This command can be used to set eap over lan destination mac to a unicast mac for L2 multiple hop networks
Context	transport-security macsec mka policy name *string* eapol-destination-address *string*
Tree	eapol-destination-address
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

encrypt *boolean*

Description	Enable or disable PDU encryption, if enabled the PDUs are encrypted and authenticated if disabled the PDU is only authenticated and not encrypted
Context	transport-security macsec mka policy name *string* encrypt *boolean*
Tree	encrypt
Default	true
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

hello-interval *number*

Description	MKA hello interval, the intervals are 1000 ms up to 6000 ms
Context	transport-security macsec mka policy name *string* hello-interval *number*
Tree	hello-interval
Range	1000 | 2000 | 3000 | 4000 | 5000 | 6000
Default	2000
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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key-server-priority *number*

Description Specifies the key server priority used by the macsec

Macsec Key Agreement (MKA) advertises and selects a key server. The node with the lower priority-number is selected as the key server. If the priority-number is identical on both sides of a point-to-point link, the MKA protocol selects the device with the lower MAC address as the key server

Context transport-security macsec mka policy name *string* key-server-priority *number*

Tree key-server-priority

Default 16

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

macsec-cipher-suite *keyword*

Description Set cipher suite(s) for security association key (SAK) derivation

Context transport-security macsec mka policy name *string* macsec-cipher-suite *keyword*

Tree macsec-cipher-suite

Options

- gcm-aes-128

  gcm-aes-128 Cipher Suite
- gcm-aes-256

  gcm-aes-256 Cipher Suite
- gcm-aes-xpn-128

  gcm-aes-xpn-128 Cipher Suite
- gcm-aes-xpn-256

  gcm-aes-xpn-256 Cipher Suite

Configurable True

Platforms 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-number-of-peers *number*

Description Max mka peers allowed

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Context	transport-security macsec mka policy name *string* maximum-number-of-peers *number*
Tree	maximum-number-of-peers
Range	1 to 512
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-rekey-on-live-peer-loss *boolean*

Description	Security association key, re-key on peer loss
Context	transport-security macsec mka policy name *string* sak-rekey-on-live-peer-loss *boolean*
Tree	sak-rekey-on-live-peer-loss
Default	false
Configurable	True
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context Operational state data for MKA
Context	transport-security macsec mka statistics
Tree	statistics
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

in-mkpdu-errors

Description	Enter the in-mkpdu-errors context
Context	transport-security macsec mka statistics in-mkpdu-errors
Tree	in-mkpdu-errors
Configurable	False

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Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bad-peer-errors *number*

Description	MKPDU RX bad peer message number error count
Context	transport-security macsec mka statistics in-mkpdu-errors bad-peer-errors *number*
Tree	bad-peer-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

icv-verification-errors *number*

Description	MKPDU RX ICV verification error count
Context	transport-security macsec mka statistics in-mkpdu-errors icv-verification-errors *number*
Tree	icv-verification-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

peer-list-errors *number*

Description	MKPDU RX non-recent peer list Message Number error count
Context	transport-security macsec mka statistics in-mkpdu-errors peer-list-errors *number*
Tree	peer-list-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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validation-errors *number*

Description	MKPDU RX validation error count
Context	transport-security macsec mka statistics in-mkpdu-errors validation-errors *number*
Tree	validation-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

out-mkpdu-errors

Description	Enter the out-mkpdu-errors context
Context	transport-security macsec mka statistics out-mkpdu-errors
Tree	out-mkpdu-errors
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-invalid-number *number*

Description	MKPDU TX error count
Context	transport-security macsec mka statistics out-mkpdu-errors pdu-invalid-number *number*
Tree	pdu-invalid-number
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-not-quad-size *number*

Description	MKPDU TX error count

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Context	transport-security macsec mka statistics out-mkpdu-errors pdu-not-quad-size *number*
Tree	pdu-not-quad-size
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-too-big *number*

Description	MKPDU TX error count
Context	transport-security macsec mka statistics out-mkpdu-errors pdu-too-big *number*
Tree	pdu-too-big
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pdu-too-small *number*

Description	MKPDU TX error count
Context	transport-security macsec mka statistics out-mkpdu-errors pdu-too-small *number*
Tree	pdu-too-small
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

rx-sak-install-fail *number*

Description	Rx SAK install fail count
Context	transport-security macsec mka statistics rx-sak-install-fail *number*
Tree	rx-sak-install-fail

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Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-cipher-mismatch-errors *number*

Description	MKA error SAK cipher mismatch count
Context	transport-security macsec mka statistics sak-cipher-mismatch-errors *number*
Tree	sak-cipher-mismatch-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-decryption-errors *number*

Description	MKA error SAK decryption/unwrap count
Context	transport-security macsec mka statistics sak-decryption-errors *number*
Tree	sak-decryption-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-encryption-errors *number*

Description	MKA error SAK encryption/wrap count
Context	transport-security macsec mka statistics sak-encryption-errors *number*
Tree	sak-encryption-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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sak-generation-errors *number*

Description	MKA error SAK generation count
Context	transport-security macsec mka statistics sak-generation-errors *number*
Tree	sak-generation-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

sak-hash-errors *number*

Description	MKA error Hash Key generation count
Context	transport-security macsec mka statistics sak-hash-errors *number*
Tree	sak-hash-errors
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tx-sak-install-fail *number*

Description	Tx SAK install fail count
Context	transport-security macsec mka statistics tx-sak-install-fail *number*
Tree	tx-sak-install-fail
Default	0
Configurable	False
Platforms	7250 IXR-10e-gen2cp, 7250 IXR-10e-gen2cp-3, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen2cp-3, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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22 tunnel-interface

```
tunnel-interface name string
+  vxlan-interface index number
   +  bridge-table
      -  multicast-destinations
         -  destination vtep (ipv4-address | ipv6-address) vni number
            -  destination-index number
            -  multicast-forwarding keyword
            -  not-programmed-reason keyword
         -  multicast-limit
            -  current-usage number
            -  maximum-entries number
      -  statistics
         -  active-entries number
         -  failed-entries number
         -  mac-type type keyword
            -  active-entries number
            -  failed-entries number
            -  total-entries number
         -  total-entries number
      -  unicast-destinations
         -  destination vtep (ipv4-address | ipv6-address) vni number
            -  destination-index number
            -  mac-table
               -  mac address string
                  -  failed-slots number
                  -  last-update string
                  -  not-programmed-reason keyword
                  -  type keyword
            -  statistics
               -  active-entries number
               -  failed-entries number
               -  mac-type type keyword
                  -  active-entries number
                  -  failed-entries number
                  -  total-entries number
               -  total-entries number
         -  es-destination esi string
            -  destination-index number
            -  mac-table
               -  mac address string
                  -  failed-slots number
                  -  last-update string
                  -  not-programmed-reason keyword
                  -  type keyword
            -  statistics
               -  active-entries number
               -  failed-entries number
               -  mac-type type keyword
                  -  active-entries number
                  -  failed-entries number
                  -  total-entries number
               -  total-entries number
            -  vtep address (ipv4-address | ipv6-address) vni number
   +  egress
      +  inner-ethernet-header
         +  source-mac keyword
```


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```
        -  used-source-mac string
      +  source-ip keyword
   +  ingress
      +  vni number
   +  irb-termination boolean
   -  oper-down-reason keyword
   -  oper-state keyword
   +  type identityref
```


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22.1 tunnel-interface Descriptions

tunnel-interface name *string*

Description	In the case that the interface is logical tunnel interface, the parameters for the tunnel are specified within this subtree. Tunnel interfaces have only a single logical subinterface associated with them.
Context	tunnel-interface name *string*
Tree	tunnel-interface
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

name *string*

Description	The name of the tunnel-interface. Valid options are: vxlan<N>, N=0..255
Context	tunnel-interface name *string*
String Length	6 to 8
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vxlan-interface index *number*

Description	The list of vxlan-interfaces.
Context	tunnel-interface name *string* vxlan-interface index *number*
Tree	vxlan-interface
Configurable	True

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP
Max. Elements	16384

index *number*

Description	The index of the vxlan-tunnel.
Context	tunnel-interface name *string* vxlan-interface index *number*
Range	0 to 99999999
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

bridge-table

Description	Enable the bridge-table context
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table
Tree	bridge-table
Configurable	True
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-destinations

Description	Enter the multicast-destinations context
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations
Tree	multicast-destinations
Configurable	False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination vtep *(ipv4-address | ipv6-address)* vni *number*

Description	Enter the destination list instance
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*
Tree	destination
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vtep *(ipv4-address | ipv6-address)*

Description	IP address identifying the remote VXLAN Termination Endpoint (VTEP)
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vni *number*

Description	VXLAN Network Identifier (VNI) of the destination
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*

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Range	1 to 16777215
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description	System-wide unique identifier of this VXLAN destination object (system allocated)
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* destination-index *number*
Tree	destination-index
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-forwarding *keyword*

Description	Type of multicast data forwarded by this VXLAN destination
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* multicast-forwarding *keyword*
Tree	multicast-forwarding
Options	• none • BUM • unknown-unicast • broadcast-mcast • mcast
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the destination is not programmed in the floodlist

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- no-destination-index
- multicast-limit

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

multicast-limit

Description Enter the multicast-limit context

Multicast limits per vxlan interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations multicast-limit

Tree multicast-limit

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

current-usage *number*

Description Maximum number of multicast vxlan-destinations in use on this vxlan-interface.

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Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations multicast-limit current-usage *number*
Tree	current-usage
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

maximum-entries *number*

Description	Maximum number of multicast vxlan-destinations allowed on a vxlan-interface.
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table multicast-destinations multicast-limit maximum-entries *number*
Tree	maximum-entries
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description	Enter the statistics context
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics
Tree	statistics
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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active-entries *number*

Description	The total number of entries that are active on the sub-interface.
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics active-entries *number*
Tree	active-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description	The total number of macs, which have not been programmed on at least one slot
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics failed-entries *number*
Tree	failed-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description	The type of the mac on the sub-interface.
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics mac-type type *keyword*
Tree	mac-type
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on at least one slot

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs of this type, active and inactive, on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics mac-type type *keyword* total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs, active and inactive, on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table statistics total-entries *number*

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Tree	total-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

unicast-destinations

Description	Enter the unicast-destinations context
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations
Tree	unicast-destinations
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination vtep *(ipv4-address | ipv6-address)* vni *number*

Description	Enter the destination list instance
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*
Tree	destination
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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vtep *(ipv4-address | ipv6-address)*

Description The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vni *number*

Description VXLAN Network Identifier of the destination.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number*

Range 1 to 16777215

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of this vxlan destination object (system allocated).

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* destination-index *number*

Tree destination-index

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-table

Description Enter the mac-table context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table

Tree mac-table

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string*

Tree mac

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string*

Configurable False

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Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-slots *number*

Description	The list of slot IDs corresponding to the linecards that did not successfully program the mac
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string* failed-slots *number*
Tree	failed-slots
Range	1 to 18
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description	The date and time of the last update of this mac
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string* last-update *string*
Tree	last-update
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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not-programmed-reason *keyword*

Description The reason why the mac is not programmed

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- mac-limit
- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description the type of the mac installed in the fib.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* mac-table mac address *string* type *keyword*

Tree type

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries that are active on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs, which have not been programmed on atleast one slot

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Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description the type of the mac on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics mac-type type *keyword*

Tree mac-type

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast

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- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on atleast one slot

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs of this type , active and inactive, on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics mac-type type *keyword* total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs, active and inactive, on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations destination vtep *(ipv4-address | ipv6-address)* vni *number* statistics total-entries *number*

Tree total-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

es-destination esi *string*

Description Enter the es-destination list instance

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Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string*

Tree es-destination

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

esi *string*

Description The 10-byte Ethernet Segment Identifier of the ethernet segment. ESI-0 or MAX-ESI values are not allowed.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

destination-index *number*

Description A system-wide unique identifier of this vxlan destination object (system allocated).

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* destination-index *number*

Tree destination-index

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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mac-table

Description Enter the mac-table context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table

Tree mac-table

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac address *string*

Description macs learnt on the bridging instance

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*

Tree mac

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *string*

Description Enter the address context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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failed-slots *number*

Description The list of slot IDs corresponding to the linecards that did not successfully program the mac

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* failed-slots *number*

Tree failed-slots

Range 1 to 18

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-update *string*

Description The date and time of the last update of this mac

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* last-update *string*

Tree last-update

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

not-programmed-reason *keyword*

Description The reason why the mac is not programmed

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* not-programmed-reason *keyword*

Tree not-programmed-reason

Options

- mac-limit

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- failed-on-slots
- no-destination-index
- reserved

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description the type of the mac installed in the fib.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* mac-table mac address *string* type *keyword*

Tree type

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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statistics

Description Enter the statistics context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics

Tree statistics

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries that are active on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs, which have not been programmed on atleast one slot

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

mac-type type *keyword*

Description the type of the mac on the sub-interface.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*

Tree mac-type

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *keyword*

Description Enter the type context

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword*

Options

- static
- duplicate
- learnt
- irb-interface
- evpn
- evpn-static
- irb-interface-anycast
- proxy-anti-spoof
- reserved
- eth-cfm
- irb-interface-vrrp

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

active-entries *number*

Description The total number of entries of this type on the sub-interface

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* active-entries *number*

Tree active-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

failed-entries *number*

Description The total number of macs of this type, which have not been programmed on atleast one slot

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* failed-entries *number*

Tree failed-entries

Default 0

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description The total number of macs of this type , active and inactive, on the sub-interface.

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Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics mac-type type *keyword* total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

total-entries *number*

Description	The total number of macs, active and inactive, on the sub-interface.
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* statistics total-entries *number*
Tree	total-entries
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vtep address *(ipv4-address | ipv6-address)* vni *number*

Description	Add a list entry for vtep
Context	tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* vtep address *(ipv4-address | ipv6-address)* vni *number*
Tree	vtep
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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address *(ipv4-address | ipv6-address)*

Description The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* vtep address *(ipv4-address | ipv6-address)* vni *number*

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vni *number*

Description VXLAN Network Identifier of the destination.

Context tunnel-interface name *string* vxlan-interface index *number* bridge-table unicast-destinations es-destination esi *string* vtep address *(ipv4-address | ipv6-address)* vni *number*

Range 1 to 16777215

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

egress

Description Enter the egress context

Context tunnel-interface name *string* vxlan-interface index *number* egress

Tree egress

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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inner-ethernet-header

Description Parameters of the inner VXLAN ethernet payload when the VXLAN tunnel is used in an ip-vrf.

Context tunnel-interface name *string* vxlan-interface index *number* egress inner-ethernet-header

Tree inner-ethernet-header

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-mac *keyword*

Description VXLAN inner ethernet source mac-address. Present when the VXLAN tunnel is associated with a ip-vrf network-instance.

Context tunnel-interface name *string* vxlan-interface index *number* egress inner-ethernet-header source-mac *keyword*

Tree source-mac

Default use-system-mac

Options

- use-system-mac

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

used-source-mac *string*

Description VXLAN inner ethernet source mac-address in use. Present when the VXLAN tunnel is associated with a ip-vrf network-instance.

Context tunnel-interface name *string* vxlan-interface index *number* egress inner-ethernet-header used-source-mac *string*

Tree used-source-mac

Configurable False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

source-ip *keyword*

Description The ip-address that will be used as the source-ip for all vxlan traffic egressing this vxlan-interface.

Context tunnel-interface name *string* vxlan-interface index *number* egress source-ip *keyword*

Tree source-ip

Default use-system-ipv4-address

Options

- use-system-ipv4-address

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

ingress

Description Enter the ingress context

Context tunnel-interface name *string* vxlan-interface index *number* ingress

Tree ingress

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vni *number*

Description Ingress VXLAN Network Identifier of the VXLAN subinterface.

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The egress VNI is determined by the static egress-vni configured in the associated destination or by the dynamic egress-vni learned from the control plane.

Context tunnel-interface name *string* vxlan-interface index *number* ingress vni *number*

Tree vni

Range 1 to 16777215

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

irb-termination *boolean*

Description Controls allocation of a station-tcam-2 entry on supported Hx platforms for terminating VXLAN traffic into the associated IRB subinterface

Station-tcam-2 is the overlay my-station TCAM. It is used to terminate the inner destination IRB MAC of VXLAN packets, and also holds the system IFL MAC entry. When configured to true, the router attempts to allocate a station-tcam-2 entry for this vxlan-interface. When read from state, this leaf is true only if the station-tcam-2 entry was successfully allocated and VXLAN traffic can therefore be terminated into the IRB subinterface. When the configured value is false, or the state value is false, the IRB subinterface and the vxlan-interface may remain oper-up, but while traffic between local subinterfaces and the IRB is forwarded normally, VXLAN traffic with an inner destination MAC matching the IRB MAC is not routed.

Context tunnel-interface name *string* vxlan-interface index *number* irb-termination *boolean*

Tree irb-termination

Default false

Configurable True

Platforms vxlan-irb-termination-control

oper-down-reason *keyword*

Description The reason why the vxlan-interface is oper-down

Context tunnel-interface name *string* vxlan-interface index *number* oper-down-reason *keyword*

Tree oper-down-reason

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Options
- mac-failed
- ingress-hash-failed
- egress-hash-failed
- other

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

oper-state *keyword*

Description The operational state of the vxlan-interface

Context tunnel-interface name *string* vxlan-interface index *number* oper-state *keyword*

Tree oper-state

Options
- up
- down

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

type *identityref*

Description The value of this leaf indicates the context in which the vxlan-interface will be used in.

Context tunnel-interface name *string* vxlan-interface index *number* type *identityref*

Tree type

Options
- routed

  Indicates subinterface is used in a routed context
- bridged

  Indicates subinterface is used in a bridged context
- local-mirror-dest

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Indicates subinterface is used in a mirroring destination SPAN context

- submgmt-access

  Indicates subinterface is used in a subscriber management context

- capture

  Indicates subinterface is used in a subscriber management capture context

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

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23 tunnel

```
tunnel
+  pseudowire-tunnel
   +  tunnel name string
      +  allowed-tunnel-types identityref
      -  index number
      -  last-change string
      -  operational-tunnel-id number
      -  operational-tunnel-type identityref
      +  remote-system (ipv4-address-unicast | ipv6-address-unicast-without-local)
+  vxlan-tunnel
   +  statistics
      +  admin-state keyword
      -  in-discarded-packets number
      -  in-octets number
      -  in-packets number
      -  last-clear string
      -  out-octets number
      -  out-packets number
   -  vtep address (ipv4-address | ipv6-address)
      -  index number
      -  last-change string
      -  statistics
         -  in-discarded-packets number
         -  in-octets number
         -  in-packets number
         -  last-clear string
         -  out-discarded-packets number
         -  out-octets number
         -  out-packets number
```


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23.1 tunnel Descriptions

tunnel

Description Enter the tunnel context

This model collects all config and state aspects of the tunnel table in SRLinux.

Context tunnel

Tree tunnel

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

pseudowire-tunnel

Description Enter the pseudowire-tunnel context

Context tunnel pseudowire-tunnel

Tree pseudowire-tunnel

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

tunnel name *string*

Description The name that identifies the remote system of the tunnel

Context tunnel pseudowire-tunnel tunnel name *string*

Tree tunnel

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-

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gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Max. Elements 4096

name *string*

Description The name that identifies the remote system

Context tunnel pseudowire-tunnel tunnel name *string*

String Length 1 to 255

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

allowed-tunnel-types *identityref*

Description List of allowed transport tunnel types for the pseudowire

If multiple tunnel types are allowed and there are multiple tunnel types available to the remote system, the router selects the lowest preference tunnel in the tunnel-table.

Context tunnel pseudowire-tunnel tunnel name *string* allowed-tunnel-types *identityref*

Tree allowed-tunnel-types

Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3

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- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

Min. Elements 1

index *number*

Description The system allocated ID of the pw tunnel

Context tunnel pseudowire-tunnel tunnel name *string* index *number*

Tree index

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description The date and time of the most recent change to the tunnel state

Context tunnel pseudowire-tunnel tunnel name *string* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-tunnel-id *number*

Description The owner-assigned tunnel table index value that identifies the tunnel used by the pseudowire .

Context tunnel pseudowire-tunnel tunnel name *string* operational-tunnel-id *number*

Tree operational-tunnel-id

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

operational-tunnel-type *identityref*

Description Enter the operational-tunnel-type context

Context tunnel pseudowire-tunnel tunnel name *string* operational-tunnel-type *identityref*

Tree operational-tunnel-type

Options

- ip-in-ip

  Tunnels with IP-in-IP encapsulation
- gre

  Tunnels with GRE encapsulation
- udp

  Tunnels with UDP encapsulation
- sr-isis

  Segment routing using MPLS dataplane, programmed by IS-IS
- sr-ospfv2

  Segment routing using MPLS dataplane, programmed by OSPFv2
- sr-ospfv3

  Segment routing using MPLS dataplane, programmed by OSPFv3

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- srv6-isis

  Segment routing using IPv6 dataplane, SRv6
- te-policy-sr-mpls-colored

  Tunnel setup with sr-mpls-colored type TE-Policy. Labeled Traffic Engineering Policy with color
- te-policy-sr-mpls-uncolored

  Tunnel setup with sr-mpls-uncolored type TE-Policy. Labeled Traffic Engineering Policy with primary and secondary segment-lists.
- vxlan

  Tunnels based on VXLAN encapsulation

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

remote-system *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Description The ip-address of the remote system that hosts the remote pseudowire-tunnel

Context tunnel pseudowire-tunnel tunnel name *string* remote-system *(ipv4-address-unicast | ipv6-address-unicast-without-local)*

Tree remote-system

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

vxlan-tunnel

Description Enter the vxlan-tunnel context

Context tunnel vxlan-tunnel

Tree vxlan-tunnel

Configurable True

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Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for vxlan-tunnel global statistics.

Context tunnel vxlan-tunnel statistics

Tree statistics

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

admin-state *keyword*

Description The configured state of the VXLAN statistics on the router

The default value is disable. No statistics are collected on VXLAN when the admin-state is disable. When enabled, the router starts collecting VXLAN statistics at both, global and VTEP level, however, the total number of layer-2 subinterfaces is decreased. A change in the configuration of this command also resets the statistic counters on layer-2 subinterfaces as a side effect, before resuming the collection of statistics (on these layer-2 subinterfaces).

Context tunnel vxlan-tunnel statistics admin-state *keyword*

Tree admin-state

Default disable

Options

- enable
- disable

Configurable True

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-discarded-packets *number*

Description The total number of discarded ingress VXLAN packets.

Ingress VXLAN packets can be discarded due to one of the following reasons:

Context tunnel vxlan-tunnel statistics in-discarded-packets *number*

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Tree	in-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-octets *number*

Description	The total sum of ingress VXLAN octets.
Context	tunnel vxlan-tunnel statistics in-octets *number*
Tree	in-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-packets *number*

Description	The total sum of ingress VXLAN packets. A packet in this context is an inner frame.
Context	tunnel vxlan-tunnel statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

last-clear *string*

Description	Timestamp of the last time the vxlan tunnel counters were cleared.
Context	tunnel vxlan-tunnel statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-octets *number*

Description	The total sum of egress VXLAN octets

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Context	tunnel vxlan-tunnel statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-packets *number*

Description	The total sum of egress VXLAN packets. . A packet in this context is an inner frame.
Context	tunnel vxlan-tunnel statistics out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

vtep address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)*
Tree	vtep
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

address *(ipv4-address | ipv6-address)*

Description	The IP address that identifies the remote VXLAN Termination Endpoint (VTEP).
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)*
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O,

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7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

index *number*

Description the next-hop-group-id (system allocated) for resolving the VXLAN termination endpoint

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* index *number*

Tree index

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

last-change *string*

Description The date and time of the most recent change to the tunnel state

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* last-change *string*

Tree last-change

String Length 20 to 32

Configurable False

Platforms 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64, 7250 IXR-10, 7250 IXR-10e-gen2cp, 7250 IXR-10e-gen3, 7250 IXR-18e-gen3, 7250 IXR-6, 7250 IXR-6e-gen2cp, 7250 IXR-6e-gen3, 7250 IXR-X1B, 7250 IXR-X3B, 7250 IXR-X4, 7250 IXR-X4-OSFP

statistics

Description Enter the statistics context

Container for vxlan-tunnel per VTEP (Vxlan Termination EndPoint) statistics.

Context tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics

Tree statistics

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Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-discarded-packets *number*

Description	The number of discarded ingress VXLAN packets. Ingress VXLAN packets can be discarded due to one of the following reasons:
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics in-discarded-packets *number*
Tree	in-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-octets *number*

Description	The number of octets encapsulated in ingress VXLAN packets.
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics in-octets *number*
Tree	in-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

in-packets *number*

Description	The number of packets encapsulated in ingress VXLAN packets. A packet in this context is an inner frame.
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics in-packets *number*
Tree	in-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

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last-clear *string*

Description	Timestamp of the last time the vxlan tunnel counters were cleared.
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics last-clear *string*
Tree	last-clear
String Length	20 to 32
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-discarded-packets *number*

Description	The number of discarded egress VXLAN packets. Egress VXLAN packets can be discarded due to one of the following reasons:
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics out-discarded-packets *number*
Tree	out-discarded-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-octets *number*

Description	The number of octets encapsulated in egress VXLAN packets.
Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics out-octets *number*
Tree	out-octets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

out-packets *number*

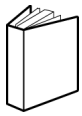
Description	The number of packets encapsulated in egress VXLAN packets. A packet in this context is an inner frame.

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Context	tunnel vxlan-tunnel vtep address *(ipv4-address | ipv6-address)* statistics out-packets *number*
Tree	out-packets
Default	0
Configurable	False
Platforms	7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L

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